1966

TOOLS

"Monument" & "Shetack" BRANDS

EQUIPMENT
FOR PLUMBERS AND THE BUILDING TRADE

THE "SHETACK" TOOL WORKS LTD.,
MONUMENT WORKS,
Tunstall Road, Brixton,
'Phone: BRIxton 1124/5/6. London, S.W.9.

Catalogue 1966 (April)

All previous lists cancelled.

Regd. trade marks: Monument Brand; Shetack; Burloc; Aplex; D.T.C.

TOOLS and EQUIPMENT
for Plumbers and the Building Trade

Drain Testing Equipment; Caulking Equipment; Mallets; Hacksaws; Tool Bags; Engineer's Charts; Plumbers Materials; Repair Bolts; Instrument Screwdrivers; Ladles; Wrenches.

We are specialists in manufacture and supply of tools and equipment for the plumbing and allied trades. This catalogue includes the best quality articles available for their particular job.

The items which are illustrated and stocked by us offer a comprehensive range of tools required by the plumber whose equipment must be reliable.

Attention is given to the design of our products and only best materials are used, with careful inspections to assure quality products reaching the user. An endeavour is made to incorporate new ideas and improvements wherever possible, and suggestions are always welcome.

Our products are stocked and distributed by the best merchants throughout Great Britain and Ireland. Particulars of our export terms and names of agents will be forwarded on request.

Prices are not printed in this Catalogue, but a separate list is available. All prices shown in the Price List are subject to alteration without prior notice.

Name and address of nearest stockist will be sent on request.

Telephone:
BRIxton 1124-5-6.

Contractors to Government Departments,

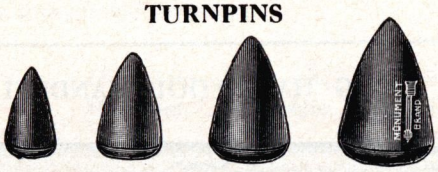
THE "SHETACK" TOOL WORKS LTD.,
Monument Works,
Tunstall Road, Brixton, London, S.W.9.

Name and address of Stockist:

PLUMBERS' WOOD TOOLS

Made from the very best selected material by craftsmen with 30 years reputation to maintain. Each tool is branded which carries our guarantee of quality.

No. 50 TURNPINS



Best quality boxwood and lignum vitae only.

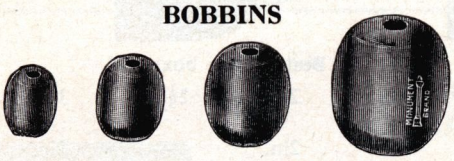
Diam. at Base	1¼in.	1½in.	1¾in.	2in.	2½in.	3in.	3½in.	4in.	4½in.	5in.	6in.
Price											

No. 54 STEEL TURNPINS

Shape as No. 50, but made for copper pipes, etc., almost everlasting.

Diam. at Base	1in.	1½in.	2in.
Price			

No. 51 BOBBINS



Best quality boxwood and lignum vitae only.

To suit lead pipe diam.	1in.	1¼in.	1½in.	2in.	2½in.	3in.	3½in.	4in.	4½in.	5in.	6in.
Price											

No. 57 MANDRELS

Best quality boxwood and lignum vitae.

To suit lead pipe diam.	1in.	1¼in.	1½in.	2in.	2½in.	3in.	3½in.	4in.	4½in.	5in.	6in.
Length	5½in.	6in.	7in.	8in.	10in.	12in.	13in.	15in.	15½in.	16in.	18in.
Price											

No. 60 REDUCING or EXPANDING MANDRELS

To suit lead pipe diam.	1-1¼in.	1¼-1½in.	1½-2in.	2-2½in.	2½-3in.	3-3½in.	3½-4in.
Overall length	9in.	10in.	12in.	13in.	14in.	14½in.	15in.
Price							

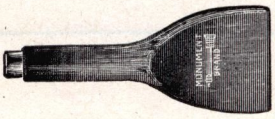
No. 61 LONG HARDWOOD MANDRELS

Made from the best quality seasoned hardwood.

Lead Pipe diam. ...	1¼in.	1½in.	2in.	3in.	3½in.	4in.
Overall length ...	24in.	24in.	24in.	24in.	24in.	24in.
Price ...						

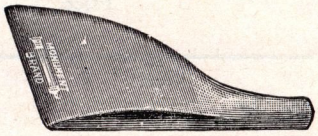
No. 65 CHASE WEDGES

Ferruled Top. 65a.



Front Bent. 65b.

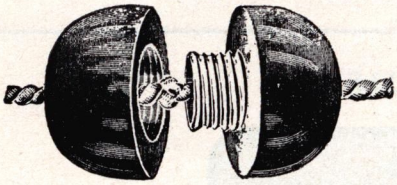
Side Bent. 65c.



Best quality boxwood.

Width ...	1½in.	2in.	2½in.	3in.	3½in.	4in.
65a ...						
65b ...	—	2in.	—	3in.	—	—
65c ...	—	2in.	—	3in.	—	—

No. 62 BRASS FOLLOWERS



Well finished screwed to take knotted cord.

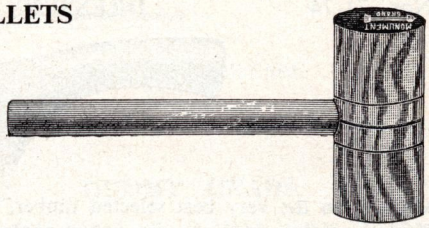
No 63 IRON FOLLOWERS

Oval hole to take knot.

To suit bobbin diam. (ins.)	1	1¼	1½	2	3	3½	4
No. 62 Brass Follower							
No. 63 Iron Follower							
To suit bobbin diam. (ins.)	—	1¼	1½	2	—	—	—
No. 64 Wood Follower							

No. 67

TINMEN'S MALLETS



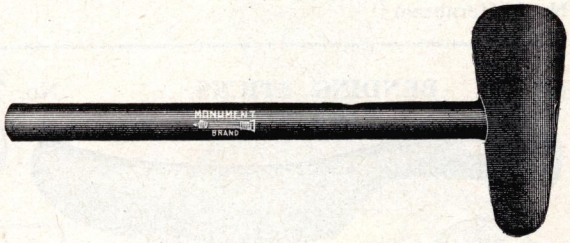
Made from best selected boxwood and lignum vitae only, inferior quality boxwoods are not used. Much attention is paid to the finish of our mallets. Handles are made from best quality ash or malacca cane which is recommended for its strength and flexibility.

Diam. of face	1¼in.	1½in.	1¾in.	2in.	2¼in.	2½in.	2¾in.	3in.	3½in.	4in.
Length of head	3¾in.	4in.	4¼in.	4¾in.	5¼in.	5½in.	5½in.	5¾in.	6¼in.	7in.

67W. Tinmen's with wood handles
67C. „ „ cane „

No. 69C

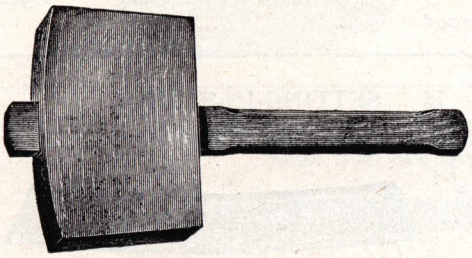
BOSSING MALLETS



Boxwood and lignum vitae heads, with malacca cane handles. Careful attention is paid to shape, balance and finish.

Diam. of face	1¼in.	1½in.	1¾in.	2in.	2¼in.	2½in.	2¾in.	3in.	3½in.	4in.

69C. Bossing with cane handles



No. 301

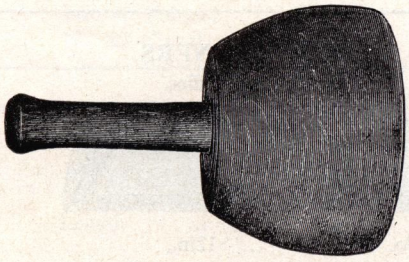
CARPENTERS' BEECH MALLETS

Made from finest quality seasoned beechwood.

4 4½ 5 5½ 6 7 in.

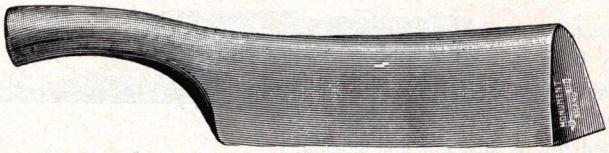
No. 83

CARVING or MASONS MALLETS



Diam. (ins.)	3	4
Lignum		
Beech		
Diam. (ins.)	6	8
Lignum		
Beech		

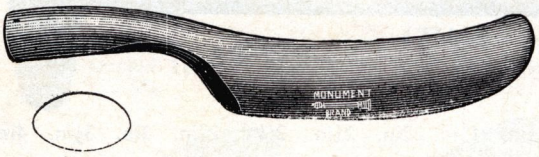
Nos. 71-74 DRESSERS or LEAD BEATERS



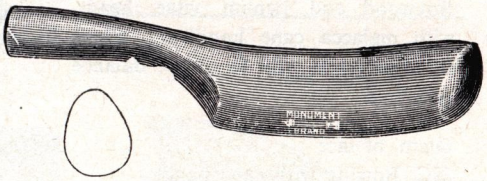
Made from the very best selected timber. Special attention has been given to shape with sufficient lift to clear knuckles of user, and enough offset. Tools shaped for the job they are made to do with an attractive finish.

	No. 0	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6
Size of face	5½ x 1⅝	6 x 1¾	7 x 2	7½ x 2¼	8 x 2⅜	8½ x 2½	9 x 3
Overall length	10½in.	11in.	12½in.	13½in.	14in.	15in.	16in.
No. 71 Special boxwood							
No. 73 Beechwood	—						
No. 74 Hornbeam	—						

No. 75 BENDING STICKS



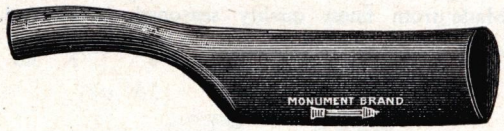
No. 76 BOSSING STICKS



Correct in style, lift, offset, finish and shape.

	No. 1	No. 2	No. 3
Overall length	12½in.	13in.	13½in.
No. 75 Bending sticks. No. 76 Bossing sticks, boxwood	...	...	...

No. 77 SETTING-IN-STICKS



No. 78 SETTING-IN-STICKS

Double ended without handle.

	No. 1	No. 2	No. 3
Overall length	12½in.	13in.	13½in.

No. 77 Boxwood

No. 78 Boxwood. ... 12in.,

No. 79 STEP TURNERS with handles.

No. 80 STEP TURNERS without handles.

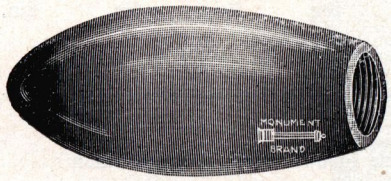
Special boxwood ... No. 1 ... ... 12in.,

No. 81

DUMMIES.

With lead heads wiped on to best malacca cane handles with smooth finish.

18in. 33in.



No. 82 **DUMMY HEADS.**

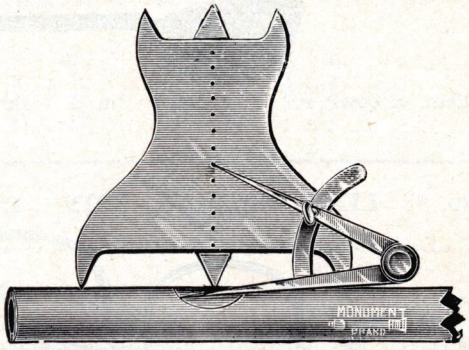
Lead heads wiped on to brass bosses. Screwed ½in. gas. Approx. weight 1lb.

Nos. 84-85

SCRIBING PLATES.

Reversible. Two sizes on one plate

No. 84 ... Hard brass ... ...
No. 85 ... Steel ... ...



No. 86 **DRIP PLATES.**

Bright Finish ... ...

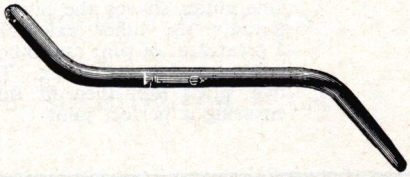
Nos. 90-91 **FIXING POINTS.**

Made from best quality ⅜in. octagon cast steel.

Overall length	10in.	14in.	18in.
No. 90 Pointed			
No. 91 Chisel			

No. 92 **BENDING BOLTS.**

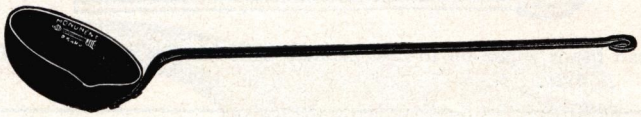
Best quality steel with black finish to resist corrosion.



Diam. at centre ...	9/16in.	9/16in.	⅝in.
Length	9in.	12in.	14in.

No. 96 LADLES

Pressed steel bowls, welded handles



Diam. of bowl	2½in.	3in.	4in.	5in.	6in.	8in.
No. 96 with heavy gauge bowls and welded handles						

No. 95 LADLES

Heavy quality solid forged handles and bowls are made in one piece, giving a much longer life for heavy duty.

Diam. of bowl ...	2in.	3in.	4in.	5in.	6in.	7in.	8in.	9in.	10in.

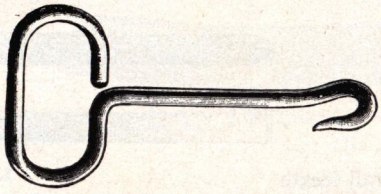
No. 98 LEAD MELTING POTS

Fitted with lip, handle, and 3 legs.

Width	5in.	6in.	7in.
Capacity lead	21lb.	35lb.	50lb.
Approx. weight	3¾lb.	6lb.	7½lb.
Width	8in.	9in.	10in.
Capacity lead	77lb.	113lb.	147lb.
Approx. weight	11¼lb.	14½lb.	17¾lb.
Width	12in.	14in.	
Capacity lead	240lb.	360lb.	
Approx. weight	26½lb.	27lb.	

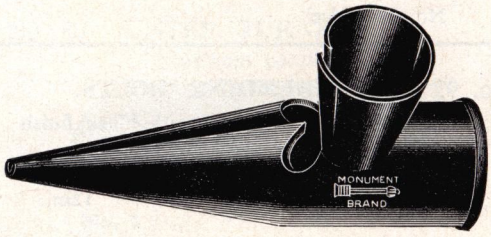
No. 99 POT HOOKS

for use with melting pots.



No. 105 UNIVERSAL or DUPLEX PIPE JOINTER

One cutter shaves the pipe internally, the other externally, a great deal of time and labour being saved in preparing. The two pipes will then fit flush ensuring a perfect joint.



No. 100 **PLUMBERS' WIPING or SOLDER CLOTHS**

Correct material, best quality moleskin or fustian, 6 ply.
Properly folded with layer of oil paper and securely sewn.

in.	in.		in.	in.		in.	in.		in.	in.	
2	x $1\frac{1}{2}$	...	*$3\frac{1}{2}$	x $2\frac{1}{2}$	...	4	x 4	...	*5	x 4	...
*$2\frac{1}{2}$	x $1\frac{1}{2}$	...	$3\frac{1}{2}$	x $3\frac{1}{2}$	...	*$4\frac{1}{2}$	x $3\frac{1}{2}$	...	5	x 5	...
*3	x 2	...	*4	x 3	...	$4\frac{1}{2}$	x $4\frac{1}{2}$	...	6	x 5	...
3	x 3	...							9	x 6	...

Each cloth is supplied in its own wrapper.
* Starred sizes are 6 recommended good stock sizes.

No. 101 **MOLESKIN or FUSTIAN**

Best heavy white, closely woven for making cloths, this material is specially selected for its lasting quality; 30 inches wide

Per yard ... ...
Per square yard ... ...

PLUMBERS' BLACK

No. 108 **CARR'S MOIST BLACK**

Ready for use

Polythene Container ...

No. 109 **SOLID BLOC BLACK**
in $\frac{1}{2}$ lb. tins,

No. 110 **SOLID BLACK in Cakes**
1 lb.

Nos. 133 - 134 PLUMBERS' PIPE BENDING SPRINGS

No. 133 *Pipe bending springs made from square section spring steel.*

Bright polished finish, will not rib the pipe.

For pipe diam.	¼in	⅜in.	½in.	⅝in.	¾in.	1in.	1¼in.	1½in.	2in.	2½in.	3in.	3½in.	4in.
No. 133L for lead pipe, colour red	—	—		—									
No. 133C for copper pipe, BSS. 659—colour black													
No. 133P for polythene pipe, BSS. 1972—colour green	—	—		—						—	—	—	—

To distinguish varying diameters for different types of pipe, each spring is marked with coloured paint as shown above.

No. 134 *Pipe bending springs made from rectangular section polished spring steel.*

Fitted with handle and eyebolt. Cord down the centre of spring prevents it stretching in use.

For pipe diam.	¾in.	1in.	1¼in.	1½in.	2in	3in.
No. 134L for lead pipe, colour red ...						
No. 134C for copper pipe, BSS. 659—colour black ...						

To distinguish varying diameters for different types of pipe, each spring is marked with coloured paint as shown above.

Springs to fit other tubing may also be supplied. When ordering, give external diameter and gauge thickness, or internal diameter and material.

No. 135 BENDING SPRINGS (External)

These Springs are used on outside of pipe, and are made of heavy gauge square section steel wire. It is not claimed that as perfect a result is obtainable as with our internal springs, but good bends can be made at any point on a long length of pipe.

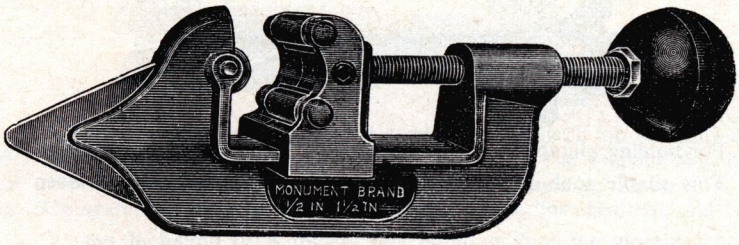
It is advisable to use a lubricant such as tallow or oil containing molybdenum disulphide for easy removal, when spring is turned to expand.

No. 135 for ½in. Domestic Copper Pipe

No. 363

TUBE CUTTER

For Copper, Brass, Aluminium, Polythene and other light gauge pipes



These Tube and Pipe Cutters are the ideal method of cutting all types of light tubing. They assure a square even cut, and are far quicker and easier to use than any other tool. The thin ALLOY TOOL STEEL WHEEL will give long service. All parts liable to wear including the rollers and pins are hardened. After cutting the internal burr is easily removed with the hardened Burring Reamer. This reamer is firmly fitted into the body of the cutter and will cut without chatter. The large Ball Handle is fluted to give a good grip and will be found quick to use.

	Domestic Copper Pipe	Outside Diam. Tube
No. 363 Size No. 1 ...	$\frac{1}{8}$in.—1in. ...	$\frac{1}{8}$in.—1$\frac{1}{8}$in ...
No. 363 Size No. 2A ...	$\frac{1}{2}$in.—1$\frac{1}{2}$in. ...	$\frac{1}{2}$in.—1$\frac{3}{4}$in ...
No. 363 Size No. 3A ...	1in.—3in. ...	1in.—3$\frac{1}{4}$in. ...

If fitted with No. 363P Wheel for Polythene Tube 6d. each extra.

No. 363

TUBE CUTTER SPARE WHEELS

Made from Alloy Tool Steel, these Wheels are carefully heat treated.
One Wheel fits all sizes.

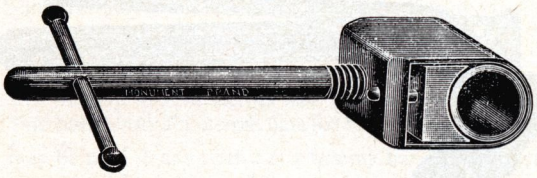
No. 363C Wheel for Copper and Metal (to fit all sizes) ... ...

No. 363P Wheel, extra thin, (to fit all sizes)
especially recommended for Polythene Pipe... ...

Spare Parts. Rollers, Roller Pins. Wheel Pins with Clips.

No. 800

BRASS and COPPER TUBE HAND VICE



This strong yet light hand vice has been designed for holding small pipes and tubing without using a heavy awkward vice.

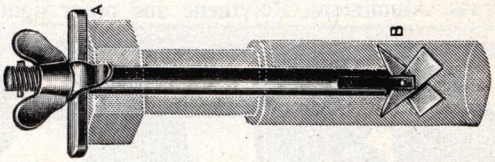
The special reinforced Rubber Gripping Block will not damage the tubing yet holds it firmly. Screwing or cutting off is made a simple job.

Gripping blocks for $\frac{3}{8}$in. and $\frac{1}{2}$in. diam. tubing are available

Size 1 for $\frac{3}{8}$in. tube ... ... extra Rubber Gripping Blocks ...
Size 2 for $\frac{1}{2}$in. tube ... ... extra Rubber Gripping Blocks ...

No. 106

The BURLOC FIXING TOOL



For holding plumbers' unions in lead pipe while soldering or wiping.

This simple tool avoids the tedious use of old-fashioned wooden splints and assures a square joint.

Simply put tool in union and fit clip A to thread of nut.

Screw down wing nut which will expand the fingers B and hold union firmly in pipe.

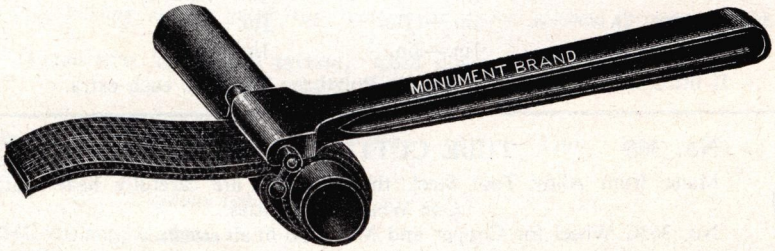
Size 0 for pipes $\frac{3}{8}$in. to $\frac{1}{2}$in. ...

Size 1 for pipes $\frac{1}{2}$in. to $\frac{3}{4}$in. ...

Size 2 for pipes $\frac{3}{4}$in. to $1\frac{1}{2}$in....

No. 300

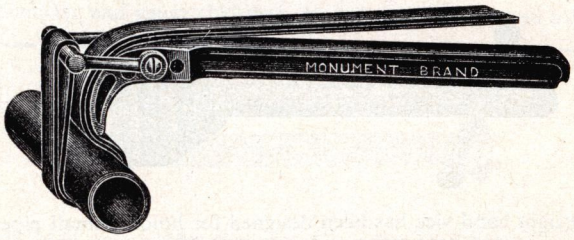
BAND or STRAP WRENCH



Employing a special non-slip band, these strongly made wrenches, if correctly used, will grip very firmly without fear of damage or marking plated fittings, tubes, etc.

Size No. 1 ... 12in. handle, $1\frac{3}{4}$in. belt, for pipes to 3in. diameter ... ...

Spare Straps



This wrench is made for larger diameter tubes and fittings. It is important to fold the strap as illustrated. Fitted with adjustable shackle. The double length strap prevents wear in one position, gives better grip, and longer life.

Size No. 2 ... 17in. handle, $1\frac{3}{4}$in. belt, for pipes 1in. to 6in. ... ...

Spare Straps

No. 410 The "SHETACK" BASIN WRENCH

The "Shetack" Basin Wrench has been specially designed for the difficult job of fitting back nuts and union nuts of pillar and bath taps behind lavatory basins and baths. The spanner may be used either in the horizontal or vertical positions enabling a nut to be tightened or undone in the most inaccessible places. The spanner is strongly made, 10¼in. long. It fits standard ½in. and ¾in. back nuts.

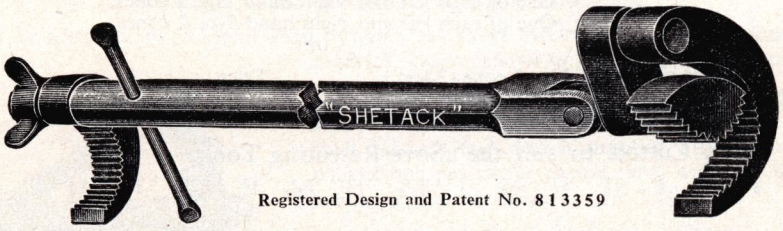
Price ... ...

No. 411 The "SHETACK" BATH WASTE WRENCH

A similar wrench to No. 410, but for bath wastes, traps, etc. Width between jaws 1⅜in. and 2in.

Price ... ...

No. 413 MONUMENT ADJUSTABLE WRENCH



Registered Design and Patent No. 813359

For use on lavatory basins, baths, copper and polythene pipe fittings, as well as non-standard nuts in places where an ordinary spanner will not reach. The serrated teeth give a ratchet action.

This wrench overcomes the difficulty of variations in sizes and clearance round nuts, as well as their inaccessibility.

Made from high tensile alloy steel.

The swivel jaw is attached to head of wrench by means of a ball catch, the jaw being reversible for tightening or loosening nuts.

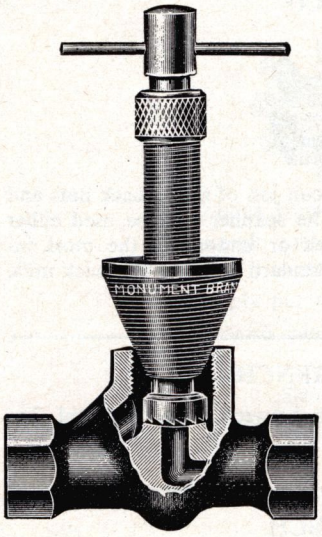
Three jaws are available, all interchangeable.

Size No. 1 For nuts up to 1in. across flats for ½in. fittings and basins.
Size No. 2 For nuts up to 1¼in. across flats for ¾in. fittings and bath taps.
Size No. 3 For nuts up to 2in. across flats for bath wastes and large fittings.

The swivel handle may be used in any position, a tommy bar being attached to its end. A spare jaw may be held in place by screw at end of handle.

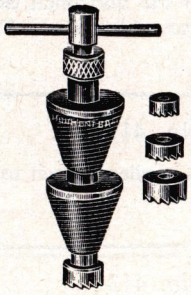
No. 413A. With size 1 jaw for ½in. fittings ... ...
No. 413B. With size 2 jaw for ¾in. fittings ... ...
No. 413C. With size 1 and 2 jaws for ½in. and ¾in. fittings ... ...
No. 413D. With size 3 jaw for bath wastes ... ...
No. 413E. With size 1, 2 and 3 jaws universal fitting ... ...
Extra jaws ... Size 1, ... Size 2, ... Size 3,

TAP RESEATING TOOLS (all steel)



Instead of discarding a water tap or stop cock which has a worn seating, by use of this reseating tool it is a simple matter to make the seating perfectly smooth and water tight without disconnecting the cock. Fitted with a feed screw, fine adjustment may be given to the cutter, which is necessary for proper use.

Set No. 173 (as illustrated), for use on smaller sizes of taps. Fitted with 2 No. 1 taper cones (max. diam. $1\frac{1}{4}$in.), one right hand and one left hand thread ; and 4 cutters, $\frac{11}{16}$in., $\frac{3}{4}$in., $\frac{13}{16}$in., and $\frac{7}{8}$in. Price



Set No. 183, similar to above, but with one right hand No. 1 cone and one $\frac{13}{16}$in. cutter. Price

Set No. 187, suitable for $\frac{1}{2}$in. and $\frac{3}{4}$in. Bibcocks with right hand thread. Fitted with 1 No. 1 R.H. taper cone, 1 No. 2 R.H. taper cone, 1 cutter each $\frac{3}{4}$in. and 1in. Price

Set No. 193, with $\frac{5}{8}$in., $\frac{3}{4}$in., $\frac{7}{8}$in., 1in., and $1\frac{3}{8}$in. cutters.

One of each left and right hand No. 1 cones.
One of each left and right hand No. 2 cones. ($1\frac{9}{16}$ in.).

One right hand No. 3 cone ($2\frac{1}{16}$in.) Price

Variations of above sets can be supplied according to requirements.

Extra Cutters to suit the above Reseating Tools.

Diam. (ins.)	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{3}{4}$	$\frac{13}{16}$	$\frac{7}{8}$	$\frac{15}{16}$	1	$1\frac{1}{16}$	$1\frac{1}{8}$	$1\frac{3}{16}$	$1\frac{1}{4}$	$1\frac{5}{16}$	$1\frac{3}{8}$	$1\frac{1}{2}$
Price														

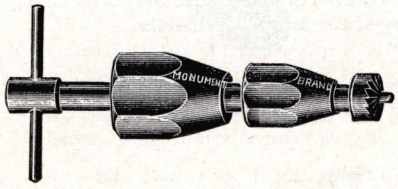
Extra cones to suit the above.

	No. 182 Size No. 1 Rt. or left hand	No. 184 Size No. 2 Rt. or left hand	No. 185 Size No. 3 Right hand
Max. diam. of cone	$1\frac{1}{4}$	$1\frac{9}{16}$	$2\frac{1}{16}$
Price			

No. 190 Reseating Tool for $\frac{1}{2}$in. "Supa" taps, which is supplied with spindle and special $\frac{9}{16}$ dia cutter. Nozzle of tap is used as feednut ... ...

BALL VALVE RESEATING TOOLS (all steel)

Similar in action to our tap reseating tools, this tool will save the major operation of disconnecting and replacing a ball valve when the seating is worn.



No. 174 TEE HANDLE

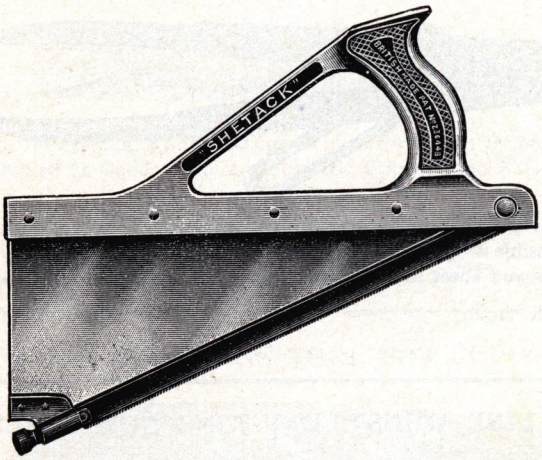
Set complete with 2 cones and 2 cutters ...

Extra cutters ... $\frac{3}{8}$in , ... $\frac{1}{2}$in.,
$\frac{3}{4}$in., ... 1in.,

Extra cones ... Small ... ...
Large ... ...

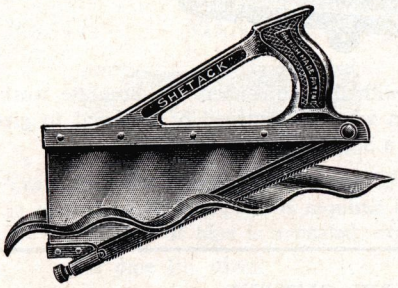
Nos. 401-402

The "SHETACK" SAW



The Shetack Saw, fitted with a high quality heat-treated angular steel plate, enables the hacksaw blade to cut material of an unlimited width or length, which is not possible with an ordinary hacksaw, as the length of cut is limited by the depth of its frame.

The Shetack Saw is particularly useful when cutting heavy gauge sheet metal, corrugated iron, corrugated asbestos, etc., as shown in accompanying illustration.



Our recent design incorporates a die-cast handle which is shaped to fit the hand and prevent discomfort to the user. Well finished, each Saw is supplied with a fitted blade and packed one per strong carton, and will give lifelong satisfaction to the purchaser.

No. 401 Shetack Saw, taking a 12 inch blade ...
For standard use on sheet metal and small corrugations.

No. 402 Shetack Saw, taking a 16 inch blade ...
For larger use on deep corrugations, heavy sheet metal, etc.

Nos. 404-407

"SHETACK" SAW BLADES

Specially designed for use with the Shetack Saw. No other blade should be used if an easy cut without binding is desired.

For very thin sheet metal, light corrugated iron,	use a blade with		32	teeth per inch.
For thin sheet metal, corrugated iron,	,,	,,	24	,,
For heavy sheet metal, heavy corrugated iron,	,,	,,	18	,,
For ebonite, plastics, and similar material,	,,	,,	14	,,
For glazed asbestos, etc.,	,,	,,	10	,,
For corrugated and asbestos sheeting,	,,	,,	7	,,

No. 404 12 inch Shetack Saw blades ... ...
No. 406 16 inch Shetack Saw blades ... ...
No. 407 12 inch Shetack Saw blades, High Speed Steel ... ...
No. 408 16 inch Shetack Saw blades, High Speed Steel ... ...

No. 188

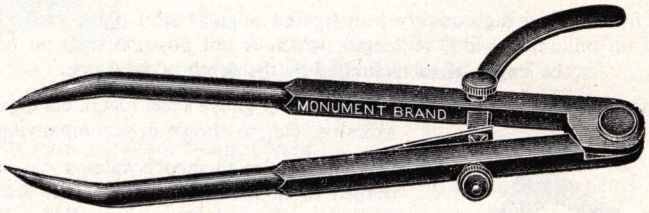
WING COMPASSES

Made with hardened steel points these compasses are superior to the heavy, out-of-date malleable iron pattern. Fitted with a collapsible wing they fold up neatly in the user's tool kit and have no springs or loose parts. Suitable for blacksmiths and sheet metal workers as well as plumbers and woodworkers. Bright finish.

Overall length	6in.	8in.	10in.	12in.	
Price					

No.188A

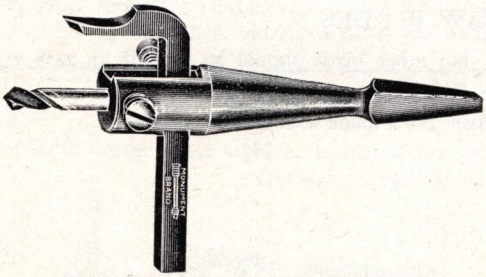
FINE ADJUSTMENT WING COMPASSES



Made with hardened steel points these Compasses are fitted with fine adjustment for accurate work. The wing is first locked into position by screw, and nut on wing is tightened or loosened to give desired measurement. Wing is held firm by a spring. Bright finish.

Overall length	6in.	8in.	10in.
Price			

EXPANDING DRILL and TANK CUTTER



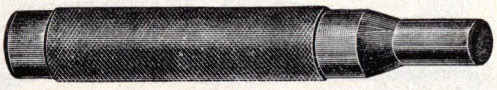
Adjustable from ¾in. to 5in. diam. hole, this cutter is made for drilling holes in tanks, cisterns, etc. The cutter is made of high quality heat-treated cast steel.

No. 148 with Brace shank ... ...
No. 147 with ½in. diam. round shank ...
Extra drills ... ...
Extra cutters ... ...

No. 149 **WASHER CUTTERS** With centrepoint and two blades

No. 149 ... Max. diam. 4in. with brace shank ... ...

No. 172 EXPANDING TOOLS FOR COPPER TUBES



These mandrels are made for expanding domestic copper pipe for use on copper tube fittings. 15° taper is supplied as standard to suit domestic Copper Pipe BSS 659 or BSS 1386.

For pipe diam. ...	½in.	¾in.	1in.	1¼in.	1½in.	2in.

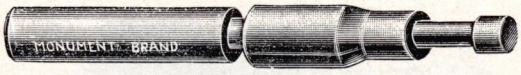
(Unless stated on order tools for BSS 659 will be sent.)

No. 181 COMBINATION EXPANDING TOOL FOR COPPER TUBES

Made for a similar purpose to No. 172, but incorporating two sizes in the one tool.
For pipes ½in. and ¾in. ...

No. 177 MANDRELS or SOCKET FORMERS for Copper Pipe

Section through Joint

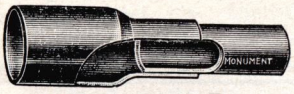


MANDREL

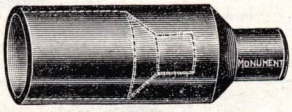
The Mandrel is driven into the end of copper pipe, thus swaging out parallel and forming a socket to receive the other pipe it is required to join. A capillary joint is easily made by solder or brazing. If end of pipe is annealed, expansion will be simplified. To suit pipes to BSS 659.

For pipe ½in. diam. ...	For pipe 1¼in. diam. ...
,, ¾in. ,, ...	,, 1½in. ,, ...
,, 1in. ,, ...	,, 2 in. ,, ...

No. 180 SOCKET REDUCING TOOLS



Reduced Socket Joint.



Former.

This tool when driven over a pipe, reduces its diameter to fit outside a smaller diameter tube, forming a reducing socket in the copper pipe. Joint is made by soldering or brazing by capillary action. To suit pipe to BSS 659.

Size (ins.)	¾ to ½	1 to ¾	1¼ to 1	1½ to 1¼	2 to 1½
Price					

No. 414

The "SHETACK" CUTTER

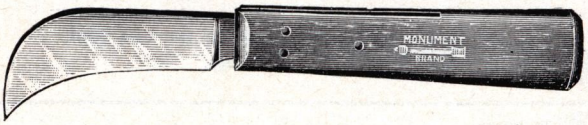
For cutting sheet lead, zinc, aluminium and other sheet materials. Suitable for scribing sheet asbestos prior to snapping off.

The handle is die cast in aluminium and shaped to fit the hand, for comfortable and continuous use.

The hardened and tempered blade is ground at a special bevel which cuts a groove in the material, removing a deep shaving. The cutter will not bind on sheet lead like other knives.

Price ... ...

Extra cutters .. ...



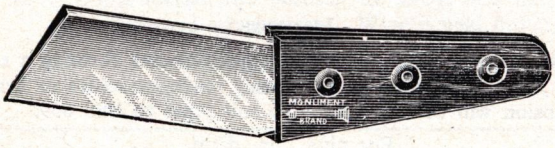
No. 126

SHEET LEAD KNIVES

Much attention is given to the shape of these knives to give the plumber the tool he requires.

The blades are carefully heat-treated with strong handles.

Price ...



No. 127

LEAD CHIPPING KNIVES

Heavy blades with leather handles.

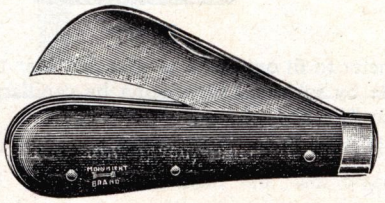
Price ...

No. 125

HACKING KNIVES

Length of blade 4½in., fitted with leather handles.

Price ...

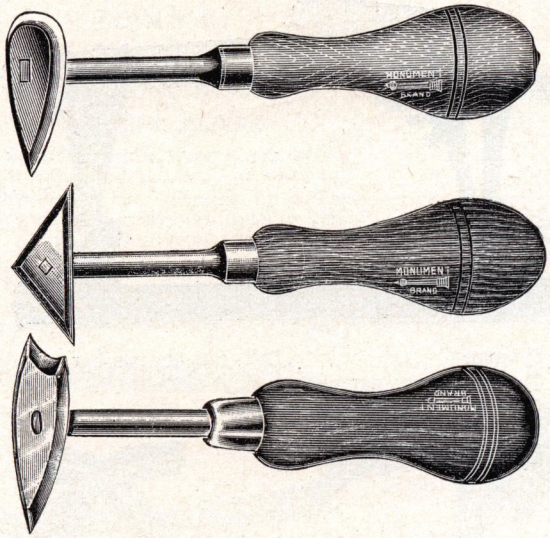


No. 123

PLUMBERS' POCKET KNIVES

With extra heavy quality folding blades.

Price ...



No. 141.
Heart Pattern, 2¼in.
Price

No. 141 S.
Heart Pattern
With small blade 1½in.
Price

No. 142.
Triangular Pattern
Price

No. 145.
Combination Pattern
Price

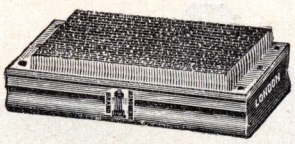
SHAVEHOOKS

These are fitted with hardened and tempered steel blades. The shanks pass through the handles and are fixed with washer at end.

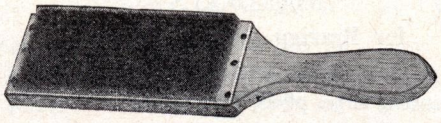
The handles are polished and large in diameter.

WIRE CLEANING BRUSHES

These are made from new cardwire securely fitted to handle with glue and staples



No. 152. Size 5in. × 2in. Square back.
Price



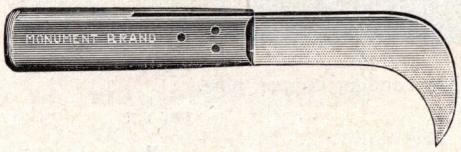
No. 152H. Size 5in. × 2in., handled 9in. overall.
Price

CARDWIRE

No. 155. New Cardwire 2in. wide in coils as used on brushes. Price

No. 156. Used Cardwire 2in. wide (good quality) Supplied in 50ft. coils. Price

LINO KNIVES



No. 275 Fitted 3in. blades, beech handles, 3 rivets ... ...

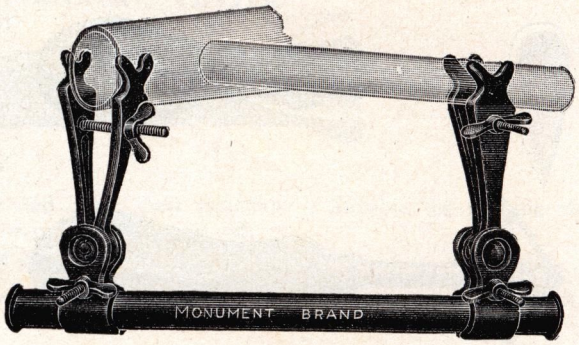
SHOE KNIVES

Beech handles with 3 rivets, well finished.

No. 276. 4½in. blade clipt point ...
No. 277. 4½in. blade parallel ...

No. 246

UNIVERSAL PIPE CLAMP

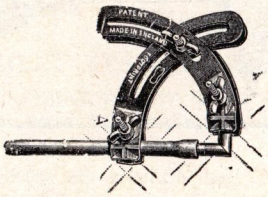


The jaws of this clamp are made with ball joint which enables two pipes to be held in any position for welding, brazing or lead joint wiping or holding unions while soldering. Light in weight, strongly made with a rust proof black chemical finish, it is made to take pipes up to 2 inch diameter. Length of steel tube support, 14 inches.

Price

SPARE PARTS Springs, Complete jaw, Spindles, Tubing Clamps complete, Bolt, nut and washer

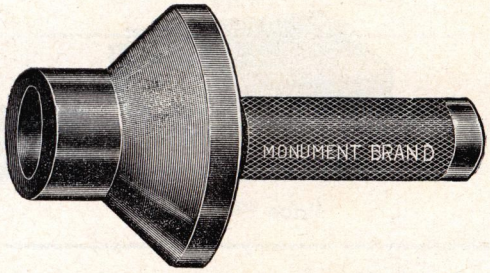
PIPE JOINTING CLAMP



Pressed steel, very light

No. 930 For pipes ¼ in. to 2in. diam. ... ...

No. 175 **MANDRELS for Brazing Copper Pipes**



These Mandrels have a 90° taper, correct angle for expanding larger pipes, prior to bronze welding.

Size 1, for pipes to 2in. diam., overall diam. 2½in. ... ...

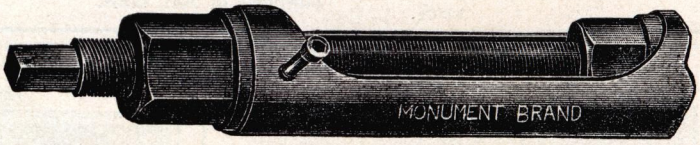
Size 2, for pipes 2½in. to 4in. diam., overall diam. 4½in. ... ...

No. 175A Mandrels similar to 175 but with pilot for one size only, for Copper Pipe BSS 659.

Diam. of pipe	½in.	¾in.	1in.	1¼in.	1½in.	2in.
Overall diam. of Mandrell	1in.	1¼in.	1½in.	1¾in.	2in.	2½in.
Price						

No. 775

SAND COMPRESSORS



For the sand loading method of hot bending copper pipe.

Size 0	for pipes ¾in., ⅞in., 1in. diam	per set
Size 1	„ 1¼in., 1½in., 2in. diam.	„
Size 2	„ 2in., 2½in., 3in., 3½in., 4in. diam. ...	„

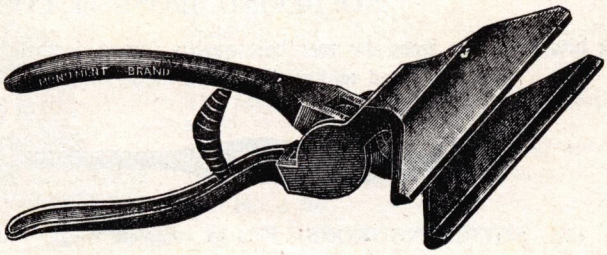
Set comprises two adjusting screws, two sets of plugs, locking screws, tightening key, etc.

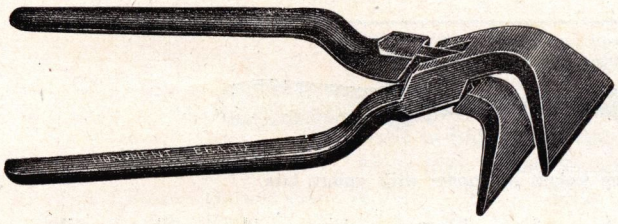
TOOLS for SHEET COPPER and ALUMINIUM ROOFING

No. 511 **SEAMING PLIERS**

Fitted with spring, these pliers assist the forming and clinching of standing seams, welts, etc. Having 5in. jaws, joints may be made both quickly and accurately.

Price ... ...

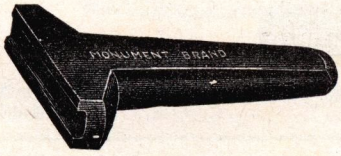




No. 510 **SEAMING and CLINCHING PLIERS**

Extra Strong with box joint, and 3in. Cranked Jaws, length overall 11in., especially useful for difficult positions.

Price ... ...



No. 515 **HAND GROOVERS for Setting in Welts**

These grooving tools are especially shaped for copper roof work, setting in welts, etc., and supplied in two sizes $\frac{3}{8}$in. or $\frac{9}{16}$in., and correct depth for normal welts.

No. 515. $\frac{3}{8}$ in.

No. 515. $\frac{9}{16}$ in.

No. 517 **SETTING HAMMERS**

Especially made for use on copper roofing with one square and one tapered or wedged shape end. Weight of head 1 lb.

Price

No. 516 **PLANISHING HAMMERS**

With one square and one round face ...

SOLDERING IRONS or COPPER BITS

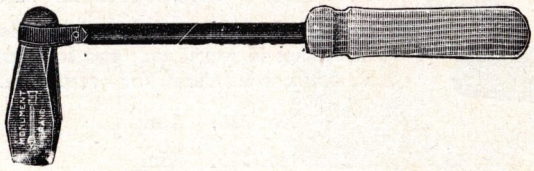
The bits are made from the very best quality forged electrolitic copper. The shanks are sturdy and securely fitted to handles, being made throughout by experienced craftsmen.

No. 120. SOLDERING IRONS. Sold by complete weight with square copper and whitewood handles.

Complete weight ...	4	6	8	12ozs.	1	1½	2	3lbs.
Price...								

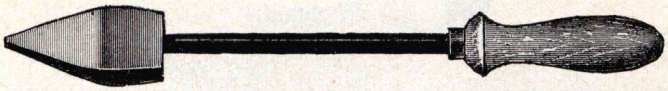
No. 132. SOLDERING IRONS. Sold by weight of copper with square bits.

Weight of copper	2	4	6	8	12ozs.	1lb	1½	2lb.	3lb.
Price									



No. 122. HATCHET BIT SOLDERING IRON. Sold by weight of copper with polished handles and ferrules.

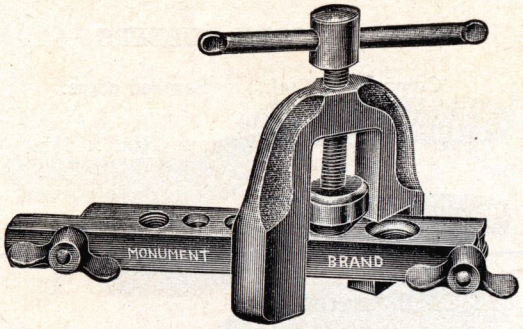
Weight of copper ...	4	8	12ozs.	1lb.	1½lb.	2lb.
Price						



No. 137. SCOTCH PATTERN SOLDERING IRONS. With shank forged into copper. Fitted with whitewood handles and no ferrules.

Complete weight ...	2	4	8	12ozs.	1	1½	2	3lbs.
Price								

All above prices are based on market price of copper and are liable to alter daily.



No. 591 FLARING TOOL

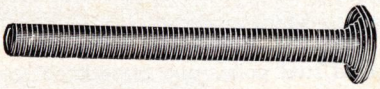
Suitable for holding tubes measured externally and forming a 90° flare for standard fittings.

The holding plate and former are hardened steel.

The clamping body is arranged at 45° to plate permitting quick operation.

Size No. 4 for
$\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$ins. diam.

No. 590 BENDING SPRINGS for tube measured externally



Made for Soft Copper Pipe measured externally, and not suitable for tube to BSS 659 or BSS 1386.

Made from Round Section Wire

Outside diam. of Pipe	$\frac{1}{4}$in.	$\frac{5}{16}$in.	$\frac{3}{8}$in.	$\frac{7}{16}$in.	$\frac{1}{2}$in.
Each					

No. 582 NAIL SETS

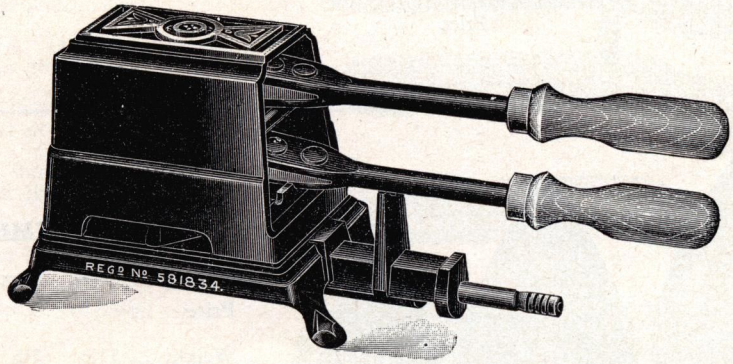
No. 583 CENTRE PUNCHES

Made with $\frac{3}{8}$in. square heads, knurled shanks and polished points.

Diam. of point (ins.)...	$\frac{1}{16}$	$\frac{3}{32}$	$\frac{1}{8}$	$\frac{5}{32}$
Each				

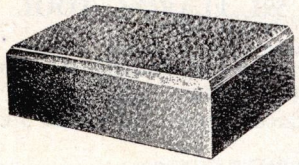
Diam. of point (ins.)	$\frac{1}{8}$	$\frac{5}{32}$	$\frac{3}{16}$
Each			

No. 556 GAS SOLDERING IRON HEATERS



Designed to take two large soldering irons, fitted with suitable rest, and hood to retain heat. A well made article of sufficient proportions for its purpose.

Price ...

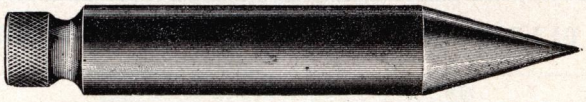


No. 178 **CORK RUBBERS**

Compressed Cork. Bevelled edges.

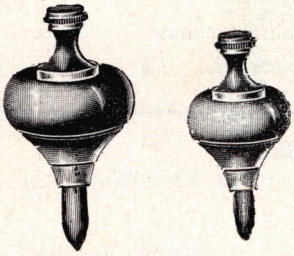
Size ... ... $4\frac{1}{2}$in. × $2\frac{1}{2}$in. × $1\frac{1}{4}$in.

Nos. 522-525-527 **STEEL PLUMB BOBS**



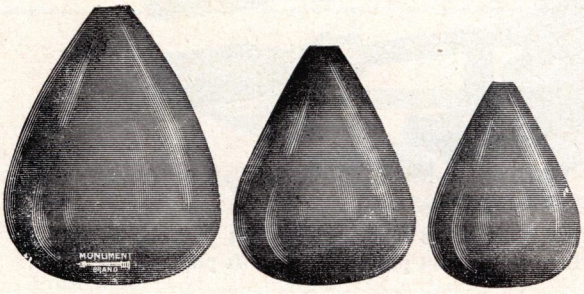
Fitted with hardened and tempered steel points and brass knob to take line, these steel plumb bobs are a useful tool for engineers, paperhangers, carpenters, etc. Nickel-plated finish to prevent rust.

	Weight	Length	Diam.
No. 522	4 oz.	$3\frac{1}{4}$in.	$\frac{3}{4}$in.
No. 523	8 oz.	4in.	1in.
No. 524	1 lb.	$4\frac{3}{8}$in.	$1\frac{1}{4}$in.
No. 525	2 lb.	5in.	$1\frac{1}{2}$in.
No. 527	3 lb.	6in.	$1\frac{3}{4}$in.



No. 306 **BRASS PLUMB BOBS**

Size No.	00	0	1	2	3	4	5	6	7
Weight, ozs.	$1\frac{1}{2}$	$2\frac{1}{2}$	3	$4\frac{1}{2}$	6	8	10	13	16
Price									



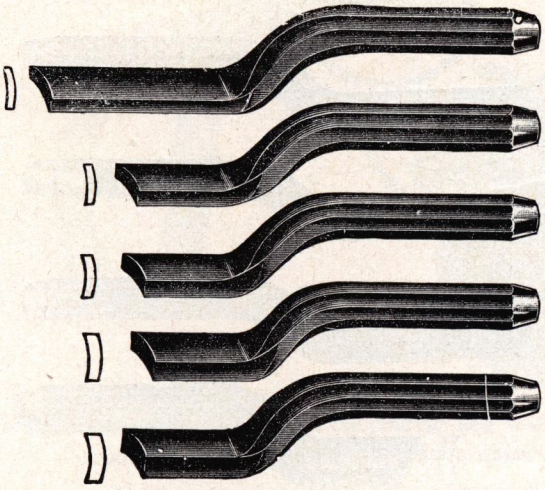
No. 168

LEAD PLUMB BOBS

Weight ...	8oz.	12oz.	1lb.	$1\frac{1}{4}$lb.
Price ...				
Weight ...	$1\frac{1}{2}$lb.	2lb.	$2\frac{1}{2}$lb.	3lb.
Price ...				

Nos. 164–165

CAULKING TOOLS



Made from $\frac{7}{8}$in. octagon best quality cast steel, these tools are for use on larger work than No. 160/162.

Set No. 164. Five tools with hollow ends.
Thickness of points $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{1}{2}$in.
Set of five ... ...
Long Blade ... ...
Short Blade ... ...

Set No. 165. Five tools with flat ends.
Thickness at points $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{1}{2}$in.
Set of five ... ...
Long Blade ... ...
Short Blade ... ...

No. 167

CAULKING TOOLS

This set of caulking tools is made from 1in. octagon bar and is used on water mains, etc., for heavy caulking.

Set of five tools consisting of:—

A. Extra long yarning tool $\frac{1}{4}$in. at point ...

B. Narrow caulking tool $\frac{1}{4}$in. at point ...

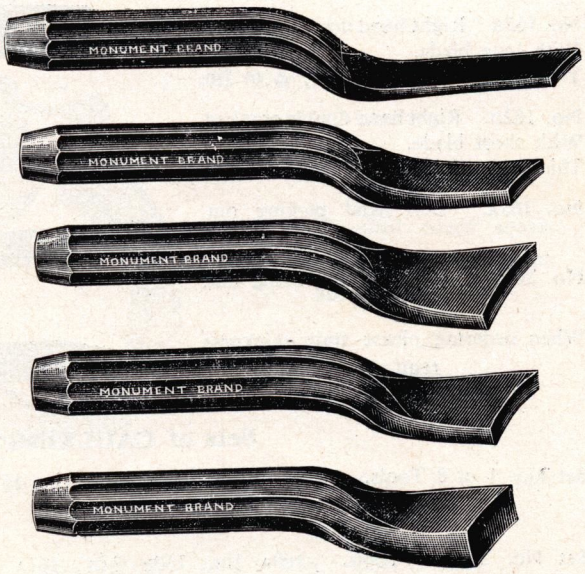
C. Wide short caulking tool $\frac{1}{4}$in. at point ...

D. Wide short caulking tool $\frac{3}{8}$in. or $\frac{1}{2}$in. at point ...

E. Wide short caulking tool $\frac{5}{8}$in. or $\frac{3}{4}$in. at point ...

No. 167. Set of five tools.
Per set ... ...

When ordering please state thickness required.



CAULKING TOOLS

Made from best quality cast steel.

Much attention has been given to the shape of these tools to assist the user.

Made from $\frac{3}{4}$in. octagon bar, this range is suitable for the smaller type of work.

Half bright finish.

No. 160A. Short flat.
Thickness of blade $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$ or $\frac{3}{8}$in.

No. 160B. Long flat yarning tool.
Thickness of blade $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$ or $\frac{3}{8}$in.

No. 161A. Short hollow.
Thickness of blade $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$ or $\frac{3}{8}$in.

No. 161B. Long hollow yarning tool.
Thickness of blade $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$ or $\frac{3}{8}$in.

No. 161C. Extra short hollow.
Thickness of blade $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$ or $\frac{3}{8}$in.

No. 162A. Left hand double cranked.
With long blade.
Thickness of blade $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$ or $\frac{3}{8}$in.

No. 162C. Left hand double cranked
With short blade.
Thickness of blade $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$ or $\frac{3}{8}$in.

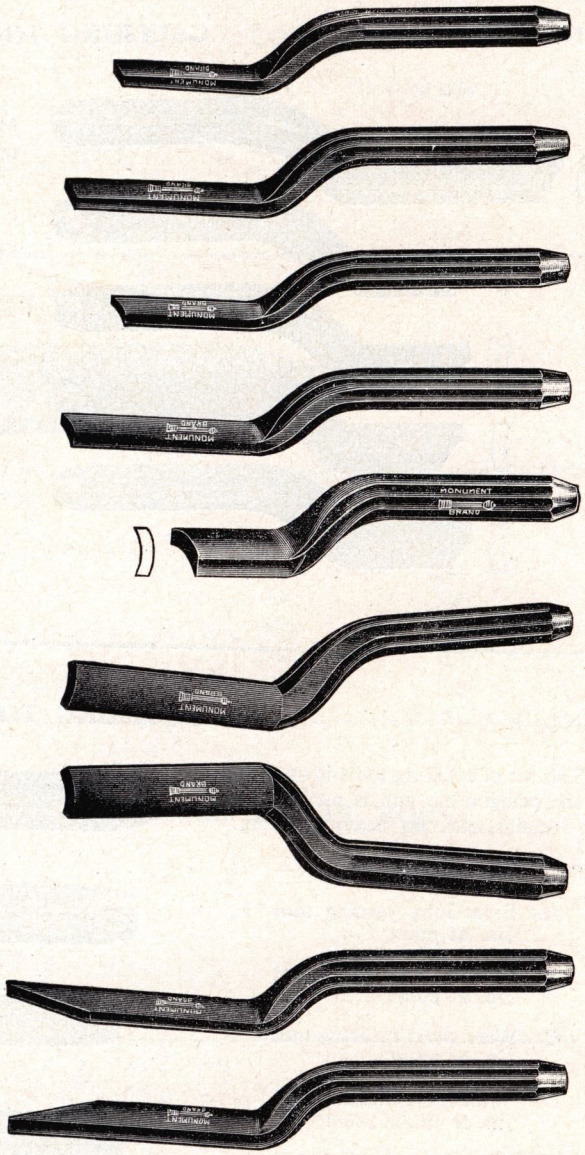
No. 162B. Right hand double cranked.
With long blade.
Thickness of blade $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$ or $\frac{3}{8}$in.

No. 162D. Right hand double cranked.
With short blade.
Thickness of blade $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$ or $\frac{3}{8}$in

No. 163A. Left hand picking out.

No. 163B. Right hand picking out.

When ordering please state thickness required.

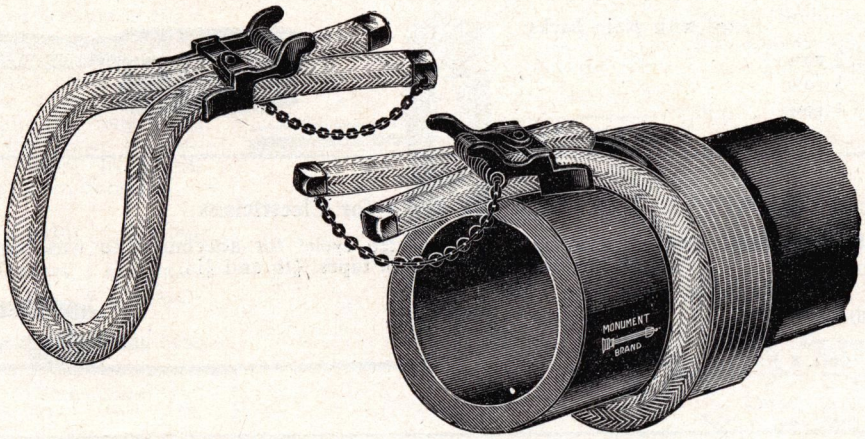


Sets of CAULKING TOOLS

Set No. 1 of 8 Tools. 160A $\frac{1}{4}$in., 160B $\frac{3}{16}$in., 161A $\frac{1}{4}$in., 161B $\frac{3}{16}$in., 162A $\frac{3}{16}$in., 162B $\frac{3}{16}$in., 163A, 163B.
Set complete ...

Set No. 2 of 6 Tools. 160A $\frac{1}{4}$in., 160B $\frac{3}{16}$in., 161A $\frac{1}{4}$in., 161B $\frac{3}{16}$in., 162A $\frac{3}{16}$in., 162B $\frac{3}{16}$in.
Set complete ...

No. 136 SQUIRREL TAIL PIPE JOINTERS



This adjustable jointing ring is used for pouring lead when caulking iron mains, soil pipe, etc. Above illustration shows method of application which obviates the use of clay packing, etc.

The rope is made from specially woven asbestos and fitted with a spring clip.

For pipes up to diam.	4in.	6in.	9in.	12in.	18in.	24in.
Price						

Being adjustable, intermediate sizes are unnecessary. Above sizes will take all pipes up to sizes shown Extra lengths of rope can be supplied for pipes of larger diam.

No. 138 PIPE CAULKING CLAMPS or CLIPS

For use on all main and soil pipe caulking. Quicker and better than the old-fashioned clay packing.

Made of bevelled edged square canvas, and fitted with locking bolt and wing nut.

Size of pipe diam. ...	2in.	3in.	4in.	5in.	6in.	7in.	8in.	9in.	10in.	12in.	14in.
Price											

Size of pipe diam. ...	15in.	16in.	18in.	20in.	21in.	24in.	27in.	30in.	36in.
Price									

No. 151 FOUNDRY or WIRE BRUSHES

Fitted with plain backs.

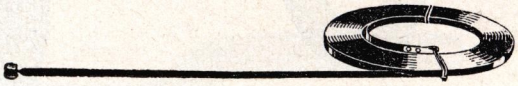
2 row ... ...
3 row ... ...
4 row ... ...

WIREMEN'S TAPES for Electricians

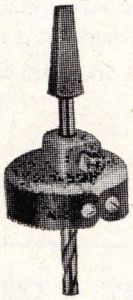
Made from hardened and tempered spring steel, fitted eyelet for attachment to wire, and jockey wheel for bends. Widths of tapes, $\frac{1}{8}$th and $\frac{1}{4}$in.

No. 580 30ft. x $\frac{1}{8}$in. 60ft. x $\frac{1}{8}$in. 100ft. x $\frac{1}{8}$in.

No. 581 66ft. x $\frac{1}{4}$in. 100ft. x $\frac{1}{4}$in.



No. 553 HOLE SAWS



For use with brace or drills and replaceable blades.
Standard type cutters.
$\frac{5}{8}$in. wide blades.

PILOT DRILLS

No. 555R $\frac{3}{16}$in. for cutters 00—08 ...
No. 557R $\frac{1}{4}$in. Round shank 07—12 ...
No. 559R $\frac{5}{16}$in. Round shank 13—20A ...
No. 562R $\frac{3}{8}$in. Round shank 21—28 ...

Cutters used for Gas and Conduit Pipes Clearing

Conduit (in.)	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	Gas (in.) ...	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$
Cutter (in.) ...	$\frac{21}{32}$	$\frac{25}{32}$	$1\frac{1}{32}$	$1\frac{9}{32}$	$1\frac{17}{32}$	$2\frac{1}{32}$	Cutter (in.) ...	$\frac{27}{32}$	$1\frac{1}{32}$	$1\frac{5}{16}$	$1\frac{11}{16}$	$1\frac{7}{8}$	$2\frac{3}{8}$	$2\frac{5}{8}$	3
Size No. ...	06	02	3	5A	8	14A	Size No. ...	0	3	6	9	12	18	21	24

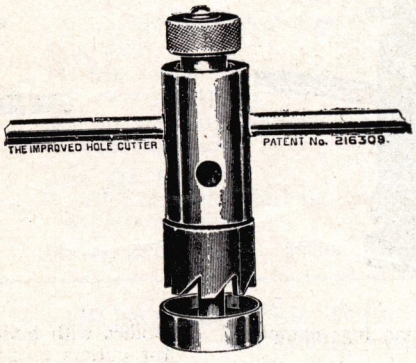
Tool No. ...	06	03	02	0	0A	2	3	3B	4	5	5A	6	6B
Diam. (in.) ...	$\frac{21}{32}$	$\frac{3}{4}$	$\frac{25}{32}$	$\frac{27}{32}$	$\frac{7}{8}$	1	$1\frac{1}{32}$	$1\frac{1}{8}$	$1\frac{3}{32}$	$1\frac{1}{4}$	$1\frac{9}{32}$	$1\frac{5}{16}$	$1\frac{3}{8}$
No. 553 Tool													
No. 553B Blades													

Tool No. ...	7	8	8C	9	10	12	14	14A	15	17	18	21	24
Diam. (in.) ...	$1\frac{1}{2}$	$1\frac{17}{32}$	$1\frac{5}{8}$	$1\frac{11}{16}$	$1\frac{3}{4}$	$1\frac{7}{8}$	2	$2\frac{1}{32}$	$2\frac{1}{8}$	$2\frac{1}{4}$	$2\frac{3}{8}$	$2\frac{5}{8}$	3
No. 553 Tool													
No. 553B Blades													

Prices of tools do not include pilot drill.

No. 150 IMPROVED HOLE CUTTER

This tool is made in three parts: the Pad which is inserted inside the Tank; the Cutter which operates on the Spindle of the Pad; and the Body which turns the Cutter and applies pressure by means of Feed Screw.



No. 1 Body is suitable for Cutters up to 1½in. Gas Clearing.

No. 2 Body for larger sizes.

GAS PIPE CLEARING

Complete set, ½ to 1¼in.,
,, ,, ½ ,, 1½in.,

CONDUIT CLEARING

Complete Set ⅝ to 2in.
,, ,, ⅝ to 1¼in.

Gas Pipe Clearing Sizes

Size	Cutter & Pad	Cutter only	Pad only
To fit No. 1 Body			
½			
¾			
1			
1¼			
1½			
To fit No. 2 Body			
1¾			
2			
2¼			
2½			
3			
4			

BODIES ONLY

No. 0 Body ...

No. 1 ,, ...

No. 2 ,, ...

Conduit Clearing Sizes

Size	Cutter & Pad	Cutter only	Pad only
To fit No. 0 Body			
⅝			
¾			
1			
To fit No. 1 Body			
⅝			
¾			
1			
1¼			
1½			
2			

No. 139 RATCHET ATTACHMENT

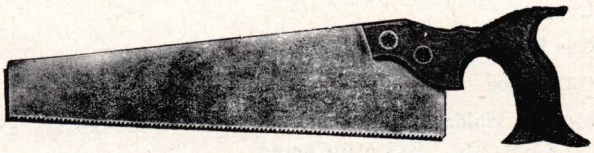
Replaces Tommy Bars, for easier operation particularly in confined positions ... ...

No 343 PLUMBERS RASPS

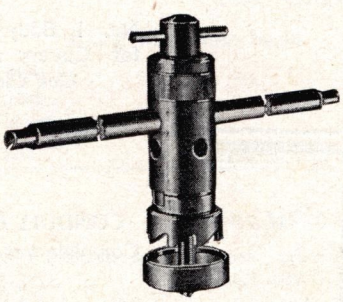
8in. 10in. 12in. length of cut

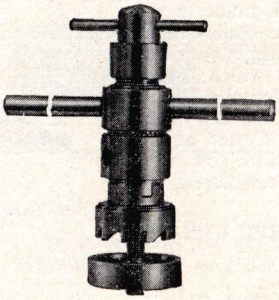
No. 312 PLUMBER'S SAWS

Double edged 16in. ...



HOLE CUTTERS





Plain bodies with stout securing lugs complete with tommy bars.

No. 201 suitable for cutters up to 2¼in.

Gas Clearing Body only	...	
Sets ½in. to 1¼in. Gas	... ...	per set
½in. to 2in. Gas	... ...	per set
⅝in. to 2in. Conduit	...	per set

Bodies with built in Rachet. No. 202 suitable for cutters to 2¼in.

Gas Clearing Body only	...	
Sets ½in. to 1¼in. Gas	... ...	per set
½in. to 2in. Gas	... ...	per set
⅝in. to 2in. Conduit	...	per set

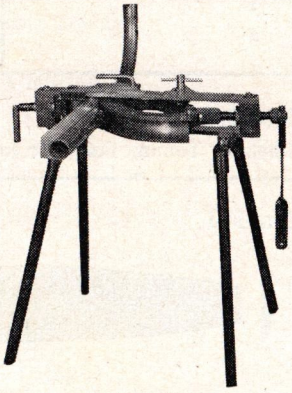
CUTTERS AND PADS

Suitable for Models No. 201 and 202. Some sizes have double sided pads.

Gas clear Cutters	½	¾	1	1¼	1½	2	2¼in.	Conduit clear Cutters	⅝	¾	1	1¼	1½	2in.
Gas clear Pads	½ × ¾		1 × 1¼		1½ × 2		2¼in.	Conduit clear Pads	⅝	¾ × 1		1¼ × 1½		2in.

RP 5B RATCHET PORTABLE BENDING MACHINE

for Copper, Conduit or Gas Tubing



Produces bends to predetermined measurements, fitted with indicator to determine correct bending pressure. Mandrel attachment, with folding legs may be supplied as an extra, which guarantees full bore bends.

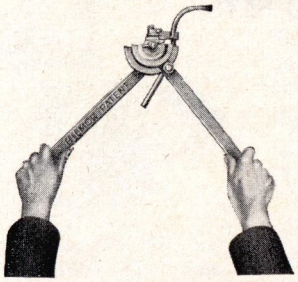
Machine and Bending Stand only ... ...

Machine, Stand with Formers and guides ¾ to 2in. Copper

Machine, Stand with Formers and guides ½ to 2in. Copper

	FORMERS						GUIDES					
BSS 659 Copper	½	¾	1	1¼	1½	2	½	¾	1	1¼	1½	2
Gas Pipe				—	—	—				—	—	—
O.D. Tube	—						—					—

Mandrel Holder, positioning plate and folding legs, complete with Mandrel Heads and Clips ¾ to 2 BSS 659 Copper ... ...



LIGHTWEIGHT BENDERS

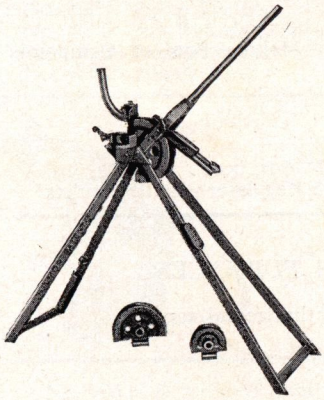
very portable and easily carried in tool bag.

Type GLO
Machine complete with $\frac{3}{8}$ and $\frac{1}{2}$in. outside diameter formers and guides ... ...

Machine complete with $\frac{3}{8}$ and $\frac{1}{2}$in. BSS 659 formers and guides ... ...

Type GL MINOR
Machine complete with $\frac{1}{2}$ and $\frac{3}{4}$in. BSS 659 formers and guides ... ...

Spares, guides for GL Minor ... $\frac{1}{2}$in. $\frac{3}{4}$in.



HILMOR COPPER TUBE BENDING MACHINES

with folding stands and vices

No. GL2B for $\frac{1}{2}$, $\frac{3}{4}$, 1in. Copper pipe complete with formers and guides BS. 659 ... ... each

No. GL3B for $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$ Copper pipe complete with formers and guides BS. 659 ...

No. EL2B for $\frac{5}{8}$, $\frac{3}{4}$, 1in. o.d. conduit tube complete with formers ... ...

No. EL3A for $\frac{5}{8}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$in. conduit tube complete with formers ... ...

PORTABLE BENDING STAND

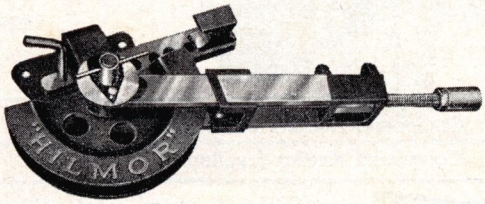
with folding legs, converting a bench machine into a portable bender

Stand only ... ...
Stand with $91\frac{1}{2}$ Pipe Vice ... ...
Stand with parallel Jaw Vice ... ...

BENCH TYPE MACHINES

For Copper or Conduit pipes.

Separate formers and guides are needed for each size.



No. K1A for $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$in. outside diameter tube ... ...
No. K1A for $\frac{1}{4}$ $\frac{3}{8}$ $\frac{1}{2}$in. Copper pipe complete with formers and guides ... ... each
No. 2B for $\frac{1}{2}$, $\frac{3}{4}$, 1in. Copper pipe complete with formers and guides ... ... ,,
No. 2B for $\frac{5}{8}$, $\frac{3}{4}$, 1in. o.d. Conduit complete with formers ... ... ,,
No. K3A for $\frac{1}{2}$, $\frac{3}{4}$, 1in. Copper pipe complete with formers and guides ... ... ,,
No. K3A for $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, Copper pipe complete with formers and guides ... ,,

FORMERS and GUIDES

For domestic copper pipe to BSS.659. Please state size of machine when ordering.
For machines No. 2B, K3A, GL2A, GL3B.

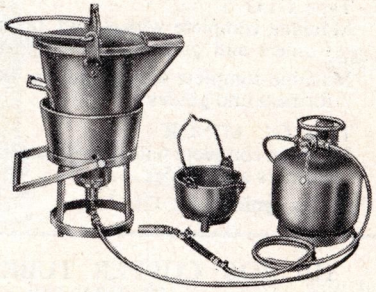
Dia. of pipe ...	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$in.
Former ...					
Guide					

Spare Parts—Please state details of machine when ordering, with full description.

To fit GL2B, EL2B, Tube Stops : Centre Pins
To fit GL3B, EL3A, Tube Stops : Centre Pins

GAS FURNACES and CABLE JOINTING SETS

for use with Propane Gas Bottles

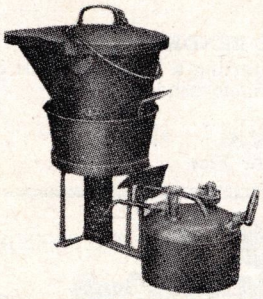


These Furnaces are supplied with single or twin frames for use with Melting Pots or Compound Buckets. Duplex for two, Monex for one.

FURNACES ONLY with burners.

No. 1311 No. 2 Duplex for 10in. Pot and 3 gallon Bucket.
No. 1312 No. 2 Monex for 10in. Pot or 3 gallon Bucket.
No. 1313 No. 3 Monex for 12in. Pot.
No. 1314 No. 4 Monex for 16in. Pot.

No. 1307 6-ft. hose
No. 19645 Regulator with two outlets.



PARAFFIN FURNACES

Large capacity horizontal type.

No. 1322

Size No. 2 8-pint Paraffin capacity will melt 1-cwt. lead in 15-minutes .....

No. 1325 Compound Buckets Black Finish 2 gallon 3 gallon
No. 1327 Compound Kettles ½ gallon ... ...

PLUMBERS FURNACES (Primus)

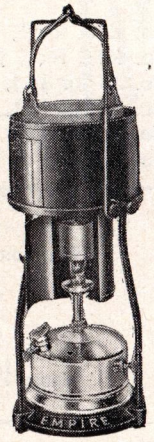
No. 2710 London pattern vertical furnace for paraffin. 3 pint capacity 6in. melting pot, complete

No. 2702
Lamp only
Spare Burners

No. 1555 **EMPIRE FURNACE (Max Sievert)**

Supplied with 2¾ pint paraffin vertical lamp. 6in. melting pot and effective wind shield. Will melt 25lbs. plumbers solder in 10 minutes. Suitable for bar and tube bending, annealing, etc. Height with handle down, 19ins.

No. 3096 Lamp only
Spare Burners



BLOWLAMPS, Paraffin

Thermidor English made with heavy brass containers, each lamp is tested and of best quality.

No. 1106 ½ pint Capacity.

No. 1107 1 pint Capacity.

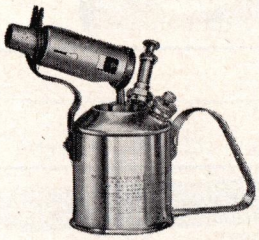
SPARE PARTS

To suit No. 1106 Lamp.

No. 1062 Vaporisers
No. 1064 Nipples
No. 1066 Filler Cap Washers
No. 1068 Pump Leathers
No. 1070 Air Release Screws
No. 1060 Needles packets of 3
No. 1072 Nipple Keys

To suit No. 1107 Lamp.

No. 1063 Vaporisers
No. 1065 Nipples
No. 1067 Filler Cap Washers
No. 1069 Pump Leathers
No. 1071 Air Release Screws
No. 1061 Needles packets of 3
No. 1073 Nipple Keys



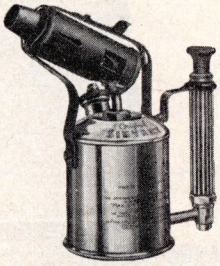
BLOWLAMPS, Paraffin

Max Sievert, made in Sweden, the original and oldest make, burners of special design to give intensive flame.

No. 1538 ... ½ pint container ...
No. 1540 ... ¾ pint container ...
No. 1542 ... 1 pint container ...
No. 1543 ... 1¾ pint container ...

No. 1561 Saturnus ¾ pint capacity paraffin 7in. flame ... ...

No. 1562 Saturnus 1 pint capacity paraffin 10in. flame... ... ...



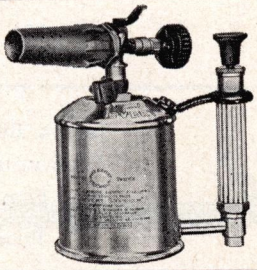
No. VAP11/555
Vapouria with pump in handle—capacity ¾ pint paraffin, 7in. flame

No. VAP12/556
Vapouria with pump in handle—capacity 1 pint paraffin 10in. flame

The finest paraffin blowlamps obtainable.

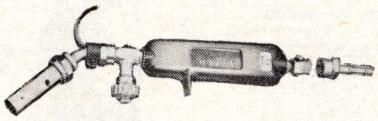
Petrol blowlamps with pump in handle and 6in. flame

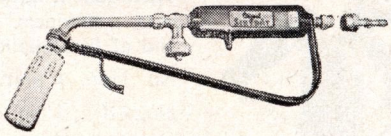
No. APM 221	No. APS 222	No. APH 223
Horizontal burner	Inclined burner	Horizontal burner
¾ pint	¾ pint	1 pint



BOTTLED GAS APPARATUS for PROPANE GAS (Max Sievert)

Torches or Supports with Unions to fit hose, but without burner.





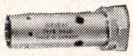
E3 A small torch for lead burners, light soldiering and paint stripping ... ...

B2 General Purpose Tool for brazing, heavy soldiering, Pipe Bending ... ...

D3 Fitted with adjustable economiser valve, trigger action and pilot light ... ...

BURNERS

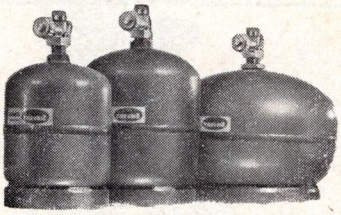
To suit above torches



No. 3937 Lead Burner ... ...
No. 3939 For Small Soldiering ...
No. 3940 For Large Soldiering ...
No. 3941 Joint Wiping, small brazing
No. 2942 Brazing, Paint Burning ...

FITTINGS

No. 19645 Pressure Regulators for containers, with hose failure device ... ...
No. 16310 6-ft. 6-in. lengths Hose with Couplings ... ...
No. 19285 Hose Failure Valves. ... ...



GAS CONTAINERS

		No. 3967	No. 3965
Weight Empty	...	4lbs. 14ozs.	8lbs. 2ozs.
Gas Capacity	...	2lbs. 4ozs.	4lbs. 6ozs.
Height	...	$9\frac{3}{4}$	9ins.
Price Empty	...		
Refill Price	...		

No. 308

INSPECTION MIRRORS

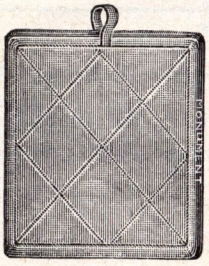
Fitted with recessed mirror, zinc back and brass edges.

Size ... ... 4in. × 4in.

Price ... ...

No. 564

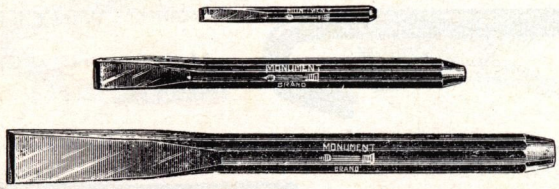
ASBESTOS MATS



12in. x 10in. made from asbestos $\frac{3}{8}$in. thick. These mats prevent damage when soldering etc. Fitted with tape to hang vertically.

Price ... ...

No. 250 COLD CHISELS. Octagon Cast Steel



Made from finest quality cast steel, correctly forged, hardened, tempered and ground with polished points and ends. Guaranteed.

Length ...	4in.	6in.	8in.	9in.	10in.	12in.	14in.	18in.	24in.
Diam. of Shank $\frac{1}{4}$in. ...	ST	ST	—	—	—	—	—	—	—
$\frac{3}{8}$in. ...	—	ST	ST	—	ST	—	ST	ST	—
$\frac{1}{2}$in. ...	—	ST	ST	—	ST	—	—	ST	ST
$\frac{5}{8}$in. ...	—	ST	ST	ST	ST	—	—	—	—
$\frac{3}{4}$in. ...	—	—	ST	ST	ST	ST	ST	ST	ST
$\frac{7}{8}$in. ...	—	—	—	ST	ST	ST	—	—	—
1in. ...	—	—	ST	ST	ST	ST	—	ST	ST

ST = Stock Size

No. 251. Plugging Chisels

GROOVED

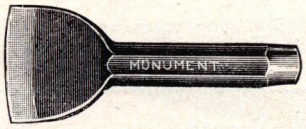
10in. x $\frac{5}{8}$in.

No. 254. Floor Board Chisels

9in. long x $2\frac{1}{4}$in. wide blade

No. 255 BRICK POINTS

10in. × $\frac{3}{4}$in. ...
12in. × $\frac{3}{4}$in. ...
14in. × $\frac{3}{4}$in. ...
18in. × $\frac{3}{4}$in. ...
12in. × 1in. ...



No. 259 BRICK BOLSTERS

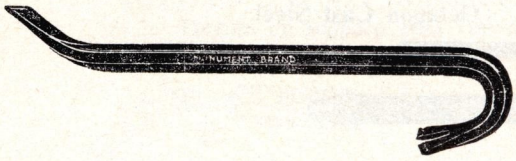
Best quality cast steel.

Width of blade (ins.)	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$
Each				

No. 166 BRICK JOINT RAKES

Made for cleaning mortar between brickwork, for pointing, etc. Best quality Cast Octagon Steel.

Price ...



No. 253

WRECKING BARS

Made from best quality Octagon Cast Steel.

Size (ins.)	14 x $\frac{1}{2}$	18 x $\frac{5}{8}$	24 x $\frac{3}{4}$	36 x $\frac{3}{4}$

No. 245

STAR WALL DRILLS

Size (ins.) ...	8 x $\frac{3}{8}$	9 x $\frac{1}{2}$	10 x $\frac{5}{8}$	11 x $\frac{3}{4}$

No. 513 **TINMENS SAND BAGS**

Best quality hide

Diam. (ins.)	8	9	10	12

No. 518 T **TINMEN'S HAND GROOVERS**

Width of groove (ins.)	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$

No. 263 **STEEL RIVET SETS**

(Combination Set up and Snap)

Diam. (ins.) ...	$\frac{1}{16}$	$\frac{3}{32}$	$\frac{1}{8}$	$\frac{5}{32}$	$\frac{3}{16}$	$\frac{7}{32}$	$\frac{1}{4}$

No. 265 **RIVET SET UPS** No. 266 **RIVET SNAPS**

Rivet diam. (ins.)...	$\frac{1}{16}$	$\frac{3}{32}$	$\frac{1}{8}$	$\frac{5}{32}$	$\frac{3}{16}$	$\frac{1}{4}$

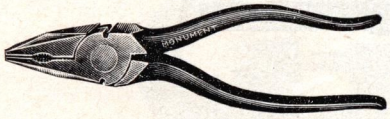
No. 262 **WAD PUNCHES, best quality cast steel**

Diam. (ins.)	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{3}{4}$	$\frac{13}{16}$	$\frac{7}{8}$
Diam. (ins.)	$\frac{15}{16}$	1	$1\frac{1}{16}$	$1\frac{1}{8}$	$1\frac{3}{16}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$	2

No. 261 **HOLLOW or SADDLER'S PUNCHES**

Size ...	00	0	1	2	3	4	5	6	7	8	9	10
Diam. (ins.)	$\frac{5}{64}$	$\frac{3}{32}$	$\frac{7}{64}$	$\frac{1}{8}$	$\frac{9}{64}$	$\frac{5}{32}$	$\frac{11}{64}$	$\frac{3}{16}$	$\frac{7}{32}$	$\frac{1}{4}$	$\frac{9}{32}$	$\frac{5}{16}$
Size ...	11	12	13	14	15	16	17	18	19	20	21	22
Diam. (ins.)	$\frac{11}{32}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{3}{4}$	$\frac{13}{16}$	$\frac{7}{8}$	$\frac{15}{16}$	1

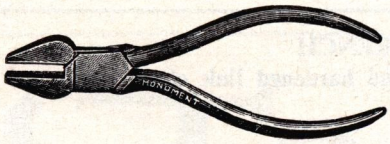
PLIERS and CUTTING NIPPERS (Best Quality, English Made) Wilkinson



No. 320 Engineers Combination and Cutting — 6 7 8

No. 321 Electricians Combination Insulated

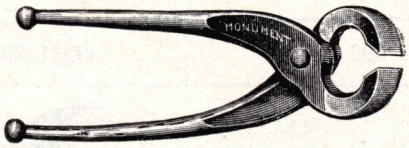
No. 334 Diagonal Cutting Nippers Plain — Ins. 6 7



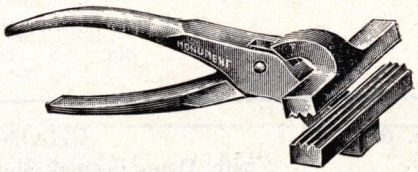
No. 374 Glass Pliers — Ins. 7 8

No. 310 Gas Pliers — Ins. 8 9

Nd. 332 End Cutting Nippers, Plain — Ins. 6 7



No. 358 Tower Pinces 7in.

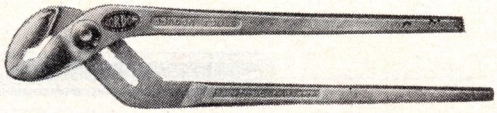


No. 375
Upholsterers' Pliers, Ribbed Jaws
" " Smooth Jaws

No. 697 GLAND NUT PLIERS

These thin jawed adjustable nut pliers are suitable for square or hexagon nuts, and enable thin or awkwardly placed nuts, etc., to be tightened.

5in. ... 10in. ...



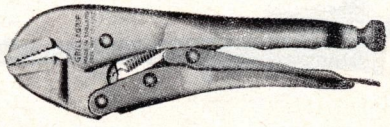
No. 698 PIPE GRIPS or WRENCHES

Length (ins.) 6 7 9 12 14
Screws

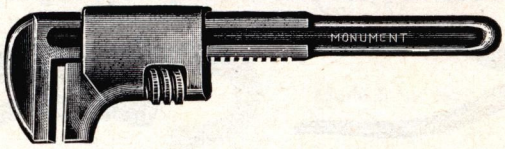
No. 699 SELF GRIP WRENCHES

Positive action with quick release

7in. 10in.



No. 695 ADJUSTABLE WRENCHES



Forged steel, best quality rack pattern.

Length (ins.)	7	9	11	14	18
Jaw opening	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{3}{16}$

No. 693 ADJUSTABLE WRENCHES

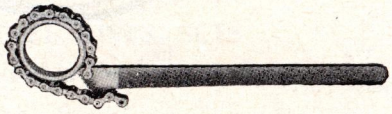
Rack and pinion adjustment. Black Walterised finish.

Length	4in.	6in.	8in.	10in.	12in.
Price					

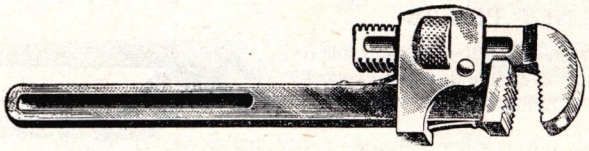
No. 609 CHAIN PIPE WRENCH

with Drop Forged Steel Lever and hardened link chain

Length of Lever (ins.)	5	8	11	14
Max diam. (ins.) ...	$1\frac{1}{8}$	$2\frac{1}{8}$	$2\frac{5}{8}$	4
Price				
Spare Chains				

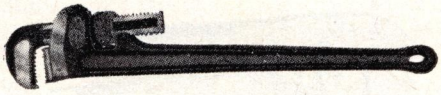


No. 690 STILLSON Pattern PIPE WRENCHES



Drop forged carbon steel, fully guaranteed.

Overall length (ins.) ...	8	10	12	14	18	24	36	48
To suit pipe (ins.) ...	$\frac{1}{8}$-$\frac{3}{4}$	$\frac{1}{8}$-1	$\frac{1}{8}$-$1\frac{1}{4}$	$\frac{3}{16}$-$1\frac{1}{2}$	$\frac{1}{4}$-2	$\frac{1}{4}$-$2\frac{1}{2}$	$\frac{1}{4}$-$3\frac{1}{2}$	1-5
No. 690								
No. 690R Record ...								

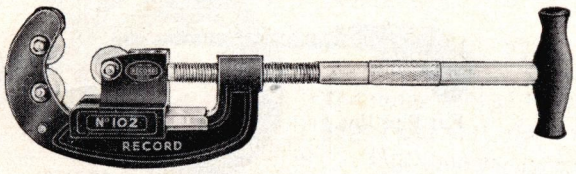


No. 2350 LEADER PIPE WRENCHES

Will stand up to rough handling and hard work

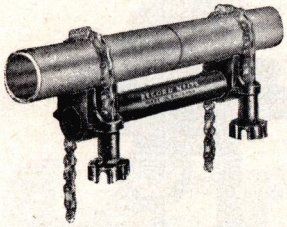
Length ...	10in.	14in.	18in.	24in.
Capacity ...	$1\frac{1}{2}$in.	2in.	$2\frac{1}{2}$in.	3in.

THREE-WHEEL PIPE CUTTERS



Malleable Iron Frames, Fast Cutting Wheels.

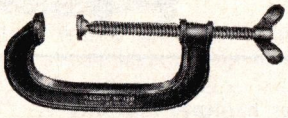
No. 1102	½in.—2in.	Pipes	...	...	...
No. 1103	1½in.—3in.	,,	...	...	...
No. 1104	2½in.—4in.	,,	...	...	...



No. 2175-2177 PIPE WELDING CLAMPS

for holding steel tubes in position when being welded

No. 2175	½in. to	2in.	...	...	...	...
No. 2176	2in. to	4in.	...	...	...	...
No. 2177	4in. to	6in.	...	...	...	...



No. 1120 RIBBED G CRAMPS

Malleable Frames, Acme Type Thread

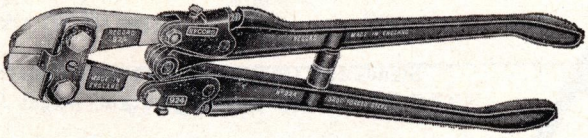
Ins.	2	3	4	5	6	8	10	12
Price								

No. 1121 DROP FORGED G CRAMPS

For heavy duty with unified thread screw and drop type handles.

Ins.	4	6	8	10	12
Price					

BOLT CUTTERS



Suitable for concrete reinforcing rods, medium tensile bolts etc.

Fitted Centre Cut Jaws

No.	1914	1918	1924	1930	1936
Length	14	18	24	30	36
Max. Diam of Cut	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{9}{16}$
Price					

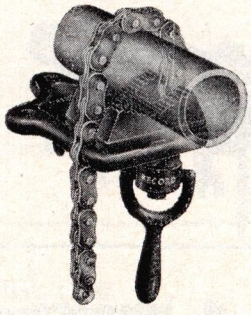
CHAIN PIPE WRENCHES Drop Forged Steel Reversible Jaws

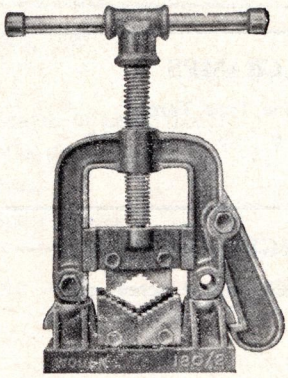
	For Pipe (ins.)	Length (ins.)
No. 2231	$\frac{1}{8}$—$1\frac{1}{2}$	20
No. 2232	$\frac{1}{4}$—$2\frac{1}{2}$	27
No. 2233	$\frac{3}{4}$—4	37
No. 2233½	1—6	44½

CHAIN PIPE VICE

Drop forged steel, and high tensile steel chains.

Vice No.	2181.	Capacity	$\frac{1}{8}$in. to 2in.
,,	2182.	,,	$\frac{1}{4}$in. to 4in.
,,	2183.	,,	$\frac{1}{2}$in. to 6in.
,,	2184.	,,	$\frac{1}{2}$in. to 8in.



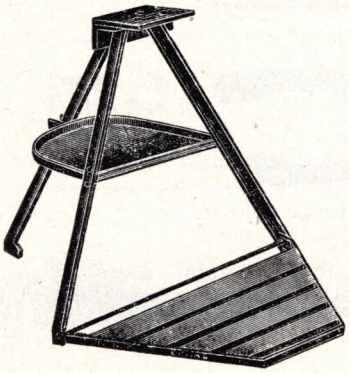


No. 1191-1194½

HINGED PIPE VICES

Malleable Iron Frames, hardened steel jaws and quick release, self-locking action.

Size No.	1191	1191½	1192	1192½	1193½	1194½
Capacity (ins.)	$\frac{1}{8}$-1	$\frac{1}{8}$–$1\frac{1}{2}$	$\frac{1}{8}$–2	$\frac{1}{8}$–$2\frac{1}{2}$	$\frac{1}{8}$–$3\frac{1}{2}$	$\frac{1}{8}$–$4\frac{1}{2}$
Weight (lbs.)	4	5	8	10	18	25



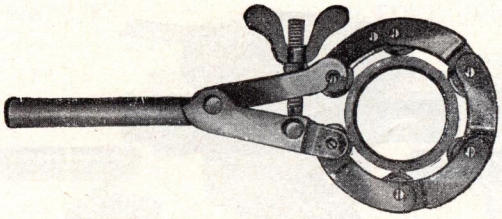
No. 350

TRIPOD STANDS

Stands only (as illustrated) strongly and neatly made with folding platform, weight 35lb. ... each

No. 362 Tripod stand fitted No. 1192, size 2. Vice $\frac{1}{8}$in. to 2in., weight 43lb. ... ...

No. 373. Tripod stand fitted No. 2181, chain vice, weight 39lb. ... ...



No. 218

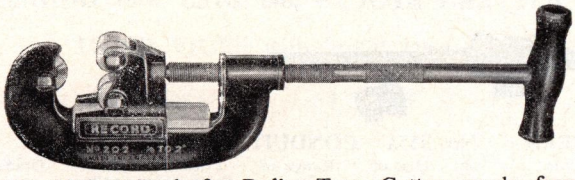
LINK PIPE CUTTERS

The sturdy links of these pipe cutters and high quality cast steel wheels make this tool capable of withstanding much heavy duty.

	To cut pipes	No. of wheels	Price	Extra Wheels	Extra Pins	Extra Links	Extra end links
No. 218 B.	2in.-4in.	6					
C.	2in.-6in.	8					
D.	2in.-8in.	10					
E.	5in.-13in.	10					
F.	12in.-18in.	11					

No. 2202

ROLLER PIPE CUTTERS



One cutting wheel, two rollers

$\frac{1}{8}$in.-2in. pipe

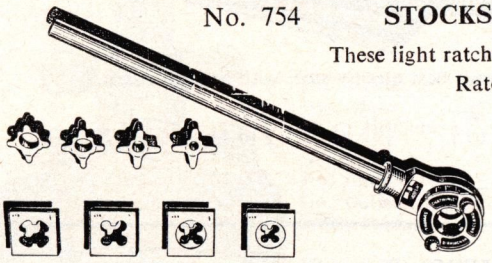
No. 219S. Wheels for Roller Type Cutters made from extra high quality steel to give extended life.

Spare Wheels ... ...
,, Pins ... ...
,, Rollers ... ...

Size 1 ... $1\frac{3}{8}$in. ...

No. 754

STOCKS and DIES with RATCHET ACTION



These light ratchet stocks are for use in confined places. Reversible Ratchet Action, separate dies and guides.

Set complete with $2\frac{3}{8}$in. Square Dies and Guides $\frac{1}{4}$ to 1in. B.S.P. — Per set

Extra Dies ... $\frac{1}{4}$ $\frac{3}{8}$ $\frac{1}{2}$ $\frac{3}{4}$ 1 $1\frac{1}{4}$in.

Extra Guides $\frac{1}{4}$ $\frac{3}{8}$ $\frac{1}{2}$ $\frac{3}{4}$ 1in. ...

No. 395

CIRCULAR DIE HOLDERS

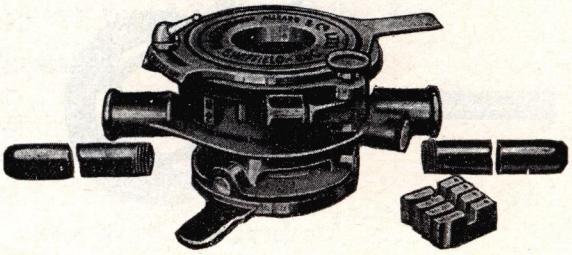
Suitable for split circular dies, baked enamel finish, three adjusting screws.

To suit dies ... ... $\frac{13}{16}$ 1 $1\frac{5}{16}$ $1\frac{1}{2}$ inch diameter

CHASER DIE STOCKS

(British Standard Pipe Thread)

These British made Die Stocks are interchangeable with the American pattern. Ratchet action, with graduated die plate, self releasing dies, tubular handles, adjustable ratchet giving right hand, left hand or fixed action.



No. 750R RATCHET TYPE

Size No.	Range of Sizes	Sets of Dies	List Price Complete	Dies Single Set
1	$\frac{1}{4}$—$1\frac{1}{4}$	3		
2	1 —2	2		
3	$\frac{1}{2}$—2	3		
$3\frac{1}{2}$	$\frac{1}{4}$—2	4		

No. 355 CIRCULAR SOLID DIE PATTERN STOCKS and DIES with GUIDES

No. 355 BRITISH STANDARD PIPE THREAD

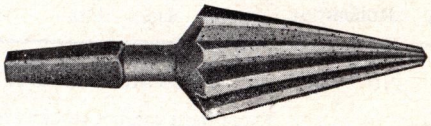
Set No.	Dia. of Dies	Range of Sizes	Price of Stock only	die only	Guide only
B	$1\frac{21}{32}$in.	$\frac{1}{8}$ $\frac{1}{4}$ $\frac{3}{8}$ $\frac{1}{2}$in.			
D	$2\frac{1}{2}$in.	$\frac{1}{4}$ $\frac{3}{8}$ $\frac{1}{2}$ $\frac{3}{4}$ 1in.			

No. 355A CONDUIT THREAD

Set No.	Dia. of Dies	Range of Sizes	Price of Stock only	Die only	Guide only
B	$1\frac{21}{32}$in.	$\frac{1}{2}$ $\frac{5}{8}$ $\frac{3}{4}$ 1in.			

No. 383 & 388

PIPE BURRING REAMERS



Spiral fluted, these Reamers are made from best quality steel with ground edges.

Size No.	1	2	3	5	6
Size of pipe (ins.) ...	$\frac{1}{8}$ to $\frac{1}{2}$	$\frac{1}{8}$ to 1	$\frac{1}{4}$ to $1\frac{1}{4}$	$\frac{1}{4}$ to $1\frac{1}{2}$	$\frac{1}{4}$ to 2
No. 383, Brace Shank ...					
No. 388, Tee Handled ...	—	—		—	

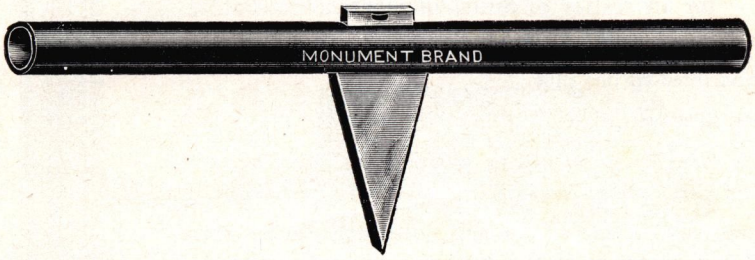
No. 382 REPAIRING REAMERS (Brace Shank)

Size No. 5, tapering $\frac{1}{8}$in. to $\frac{1}{2}$in. ... Size No. 6, tapering $\frac{3}{8}$in. to 1in. ...

No. 386 SQUARE RIMERS (Brace Shank)

Price

No. 378 **FLAT BLADED (Pipe Burring) REAMERS**



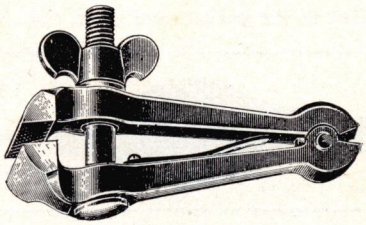
These hardened steel burring Reamers are strongly made and fitted with long tubular steel handle They are lower priced than No. 383.

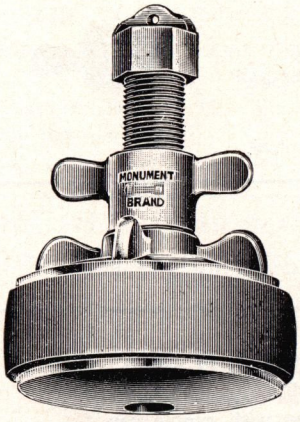
Size 2. $\frac{3}{4}$in. to 2in. pipe ...

No. 239

HAND VICES with bright jaws

Width of Jaw (ins.) ... 3 4 5





No. 280 **DRAIN TESTING PLUGS**

These plugs are made with heavy plates well galvanised, having a lip sufficiently deep to prevent the rubber slipping. Fitted with well-finished brass castings and a high quality soft rubber. The screw is sheradised to prevent rust, and washer is supplied to assist tightening. The brass fittings are of heavy quality.

STOPPERS COMPLETF.

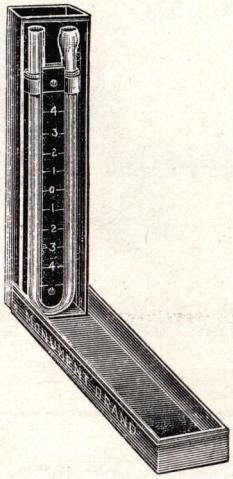
	2in.	3in.	$3\frac{1}{2}$/4in.	4in.	4/5in.
$\frac{1}{2}$in. outlet ...					
1in. outlet ...	—	—	—		
Extra rubbers ...					
	5in.	6in.	6/7in.	8in.	9in.
$\frac{1}{2}$in. outlet ...				—	—
1in. outlet ...	—				
Extra rubbers ...					
	10in.	12in.	14in.	15in.	
1in. outlet ...					
Extra rubbers ...					
	16in.	18in.	20in.	21in.	24in.
2in. outlet ...					
Extra rubbers ...					

No. 423 **DOT MOULD**

This is used for moulding lead dots or dowels, which hold the lead in place on stone copings.

No. 270 **MANOMETER or U GAUGE**

for air testing of drains or pipes



The drain to be tested is plugged with drain testing plugs, a No. 272 nipple cap being fitted to one plug.

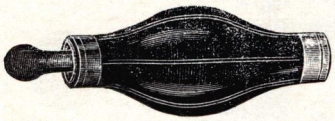
The U gauge is filled with water.

Rubber tube is fitted to nipple cap on plug and the pipe filled with air by means of hand bellows No. 271.

The bellows are removed and end of tube fitted to U gauge; whilst this is done it is necessary to pinch tube to prevent air escaping.

If difference in levels of water in U gauge remain constant the drain will not leak.

No. 270 U gauge in special enamelled case which folds up to fit the pocket, and when open stands upright ...



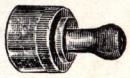
No. 271 **HAND BELLOWS**

Fitted with necessary valves and nipple, for use with U gauge

No. 272 **NIPPLE CAPS**

Made to fit drain testing plugs and rubber tube.

½in. ... 1in. ...



No. 273 Rubber Hose for use with above ... ... per foot.

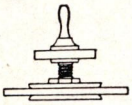
No. 274 U gauge, with hand bellows, 1 each, ½in., and 1in. nipple caps and 6 feet hose ... ... complete.

No. 284 **SMOKE ROCKETS**

Size 1 small canister $2\frac{5}{8}''$ dia. x $1\frac{1}{4}''$ long

Size 2 large cannister $2\frac{5}{8}''$ dia x $1\frac{3}{4}''$ long

No. 297



DISC PLUGS

for use with manometer, complete with nipple cap.

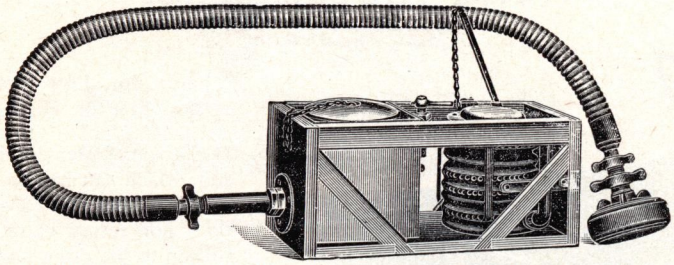
Dia. of Pipe	2	3	3½	4in.

No. 267 **DRAIN DYE**

enables the direction of a drain or pipe to be determined.

Soluble in water, Fluorescent, Red, Blue, Green, Yellow or Violet ... ... 4oz.

No. 285 **SMOKE DRAIN TESTING MACHINES**

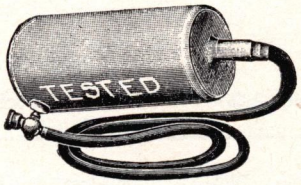


This machine is fitted with double action bellows and a copper cylinder which, in applying the smoke test, is used as a fire box. A copper float is placed over the cylinder and with the water forms an air tight joint between them.

No. 285 Drain Machine with Iron Pipe outlet ... ...
No. 291 Machine fitted with guide attachment to keep float central ...
No. 247 I.R. Wired Hose with Union, 6ft. length ... ...
No. 241 Brass Union to connect I.R. wired hose to 1in. Drain Plug ...
No. 242 Reducing Nipples to connect 241 Unions to ½in. Drain Plugs...
No. 243 1in. Nipple to connect No. 241 Brass Unions ... ...

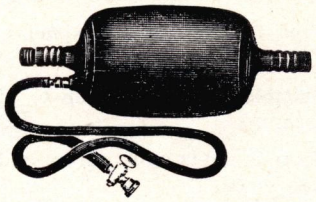
No 288 **Specially prepared SMOKE PAPER for use with above machines**
7lb. ... 14lb. ... 56lb. ... 1 cwt. ...

No. 286–286a
AIR BAG STOPPERS (Supplied in two qualities)
Fitted with 54in. length rubber tube and heavy brass cock screwed ¼in. gas.



Diam. of Pipe ... 3in. 4in. 5in. 6in. 9in. 12in.
No. 286 best quality ...
No. 286a second quality

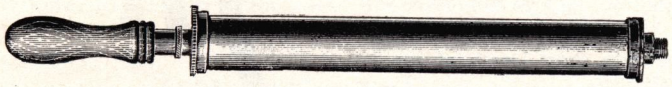
No. 295 **AIR BAG STOPPERS**
Fitted with 1in. diam. bore rubber hose through centre for attaching to Testing Machines.



Diam. of Pipe ... 4in. ... 6in.
Each ... ...

No. 244 **Brass Fitting (threaded externally)**
to connect centre bore to 1in. No. 272
Nipple caps or No. 241 Brass Union ...

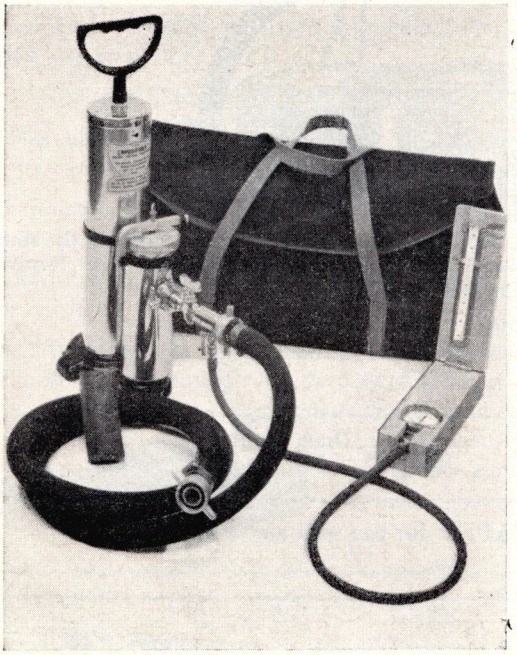
No. 287 **PUMPS FOR AIRBAG STOPPERS**



No. 287. Strongly made with fitted valve 9in. × 1½in. ... ...
Spare Cup Washers... ... ...

No. 290

PUMP TYPE DRAIN TESTER



Suitable for Low pressure air test Smoke Test or High Pressure Test.

The Drain Tester consists of a pump unit, which can handle a high volume of air, connected to a smoke chamber via a non return valve. A hose connection to the drain under test is made from the top of the smoke chamber. A tap and cock are provided for attaching the 'U' Gauge or Manometer and the pressure gauge dial (indicating the equivalent of 20 feet of water) provided.

The whole equipment is supplied in a carrying bag and includes a supply of Smoke Cartridges and a Plastic bottle for charging the 'U' Gauge.

The Drain Tester is an efficient means of testing drains quickly, cleanly and accurately.

Spare Smoke Cartridges per doz. packed 72 per box.

No. 242 1in. to ½in. Reducing Nipples to connect to ½in. Drain Plugs ... ...

No. 390 SS—10—0 bas NB.

HYDRAULIC TEST PUMP

For Testing Heating Systems, Boilers, Pipes, Castings, etc.

Suitable for Pressures up to 750lbs per square inch.

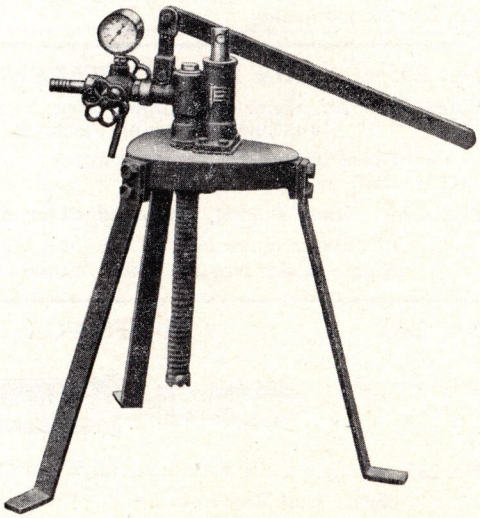
Ram is $1\frac{3}{16}$in. dia, valves and seating are of gun metal.

Complete with pressure and shut off and release valves.

The Outlet is screwed 1in. gas and fitted cap and liner to take ¾in. hose.

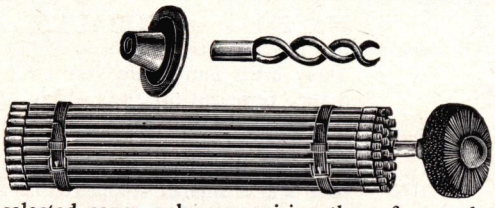
Supplied on tripod with short length of supply hose fitted with strainer.

Each



No. 430

DRAIN CLEANING MACHINES



Made from the very best selected canes only, comprising three foot rods, fitted strong brass joints double worm screw, 4in. rubber plunger, 4in. or 6in. bass drain brush and leather straps.

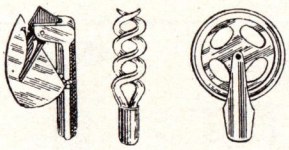
	30ft.	40ft.	50ft.	60ft.	80ft.	100ft.	3ft. Rods
No. 430P Plain Joint, per set ...							
No. 430I Ideal Lock Joint, per set							

No. 432 DRAIN CLEANING MACHINES (plain joints)

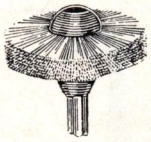
Made from best quality 2nd choice canes, double worm screw, 4in. rubber plunger, 4in. drain brush and straps.

	30ft.	40ft.	60ft.	3ft. Rods
Per set				

No. 429 Sets Sweep Brushes with 4ft. rods, 32ft long with brush and 2 straps ... ...



SPARE FITTINGS
for
Nos. 430 and 432 machines



	430P or 432	430I
No. 434 Double Worm Screws ...		
436 Rubber Plungers 4in. ...		
437 Rubber Plungers 6in. ...		
438 Drain Brushes 4in., 5in., 6in.		
439 Drop Scrapers		
435 Clearing Wheels		

No. 448 Bass Sweeps Brushes Blockhead

7in., 8in., 9in. 10in.–12in. 14 16 18in.

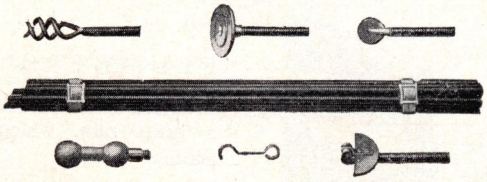
No. 449 Fitted clearing wheel and brass cup

7in., 8in., 9in. 10in.–12in. 14 16 18in.

Please state if required Plain or Ideal Joint

No. 431

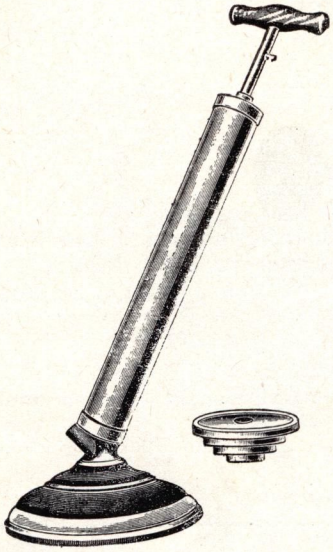
SPRING WIRE DRAIN CLEANERS



Rods are 3 feet long, ⅝in. diam., black japanned finish spring steel wire. Owing to the flexibility of these steel rods acute bends are easily negotiated. Rods may be screwed together and dismantled by means of a key provided. Sets include 3ft. wire rods, double worm screw, drop scraper, 4in. rubber plunger, key, handle and straps.

	30ft.	60ft.	3ft. wires
Sets			
Each			

4312 Drop Scrapers
4313 Brass Clearing Wheels
4314 Double Worm Screws
4316 Keys ... ...
4315 Rubber Plungers
4317 Handles ...
4318 Brass Adaptors for connection to our No. 430 Cane Rods ... ...



No. 281 HYDRAULIC FORCE PUMPS

These brass pumps are very strongly made and exert a very powerful pressure which will remove the most obstinate obstruction from wastes, gulleys, etc.

They are supplied complete with 5in. diam. round cone and a smaller stepped cone for sink wastes, etc.

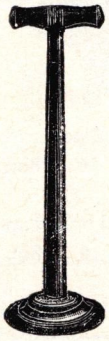
The rubber cones are fitted by pushing on to a special brass nozzle. The large round cone is steel reinforced.

Pump complete with 5in. diam. large round cone and 2¼in. diam. stepped cone ... ...

2812 Large 5in. round cones ...

2813 Stepped cones ... ...

2814 Cup leathers ... ...



No. 282

SUCTION and VACUUM PUMPS

Coopers pattern for removing obstructions in bath wastes, etc.

Diam. of Rubber 5½in. 7in. 9in.

Complete... ...

No. 283

FORCE CUPS

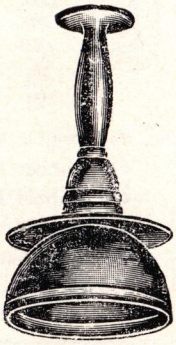
Best Quality Rubber.

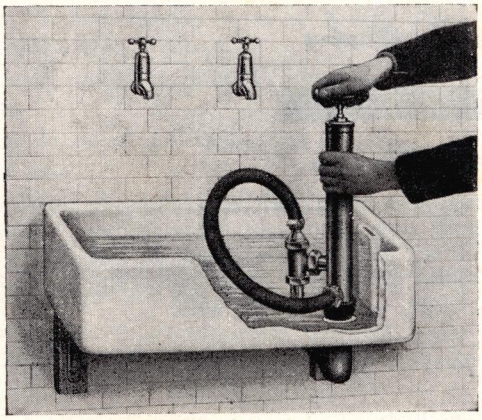
Complete

Small

Medium

Large





No. 561

PLUMBERS' FORCE PUMP

1⅞in. diam. Made from brass and fitted with a brass ram, which is more reliable than leather washers.

For air locks, clearing of wastes and force pumping.

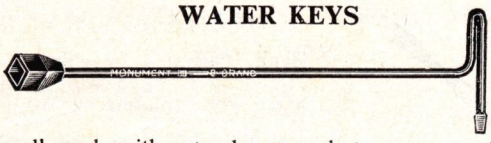
The pump may be used in both directions.

The rubber washer at base fits wastes up to 2in. diam.

Complete with hose 2ft. 6in. long and tap connection ... ...

No. 412

WATER KEYS



These keys are extremely well made with extra heavy and strong square keys, and welded tee bars.

	½in.	⅝in.	¾in.
Length of shank 33in. Square pattern ...			Crutch pattern ...
,, ,, ,, 42in. ,, ,, ...			,, ,, ...

No. 278

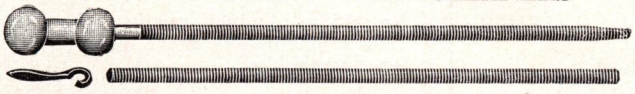
RUBBER PLUNGERS

Soft Flexible Rubber Plungers with sheradised handles, nuts and washers to prevent rust. 30in. handles. Especially useful for clearing gulleys.

4in. diam. ... ... 6in. diam. ... ...

No. 450

FLEXIBLE SPRING WIRE CLEANERS

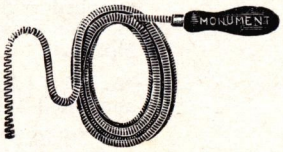


Complete with wood handle and two 3ft. spring wire rods, one of which acts as a worm screw. Supplied with brass adaptor for fitting canes, and key for disconnecting. Useful for gulleys where canes will not reach.

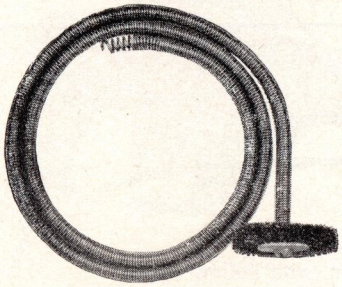
	½in. diam.	per 6ft. set	¾in. diam.	per 6ft. set	1in. diam.	per 6ft. set
Extra Wires	½in. ...	per 3ft. length	¾in. ...	per 3ft. length	1in. ...	per 3ft. length

No. 293

SINK WASTE CLEANERS.



Size 1 6 feet long, made from ¼in. diam., spring wire, plated finish ... ...
Size 2 12 feet long, made from ¼in. diam., spring wire plated finish ... ...

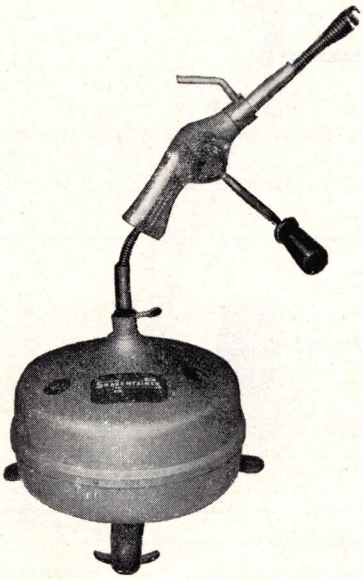


No. 292

WASTE and DRAIN CLEANING OUTFIT

Made from strong steel wire, strong but easy to operate. Will go round very acute bends.

With 6ft. x 9/16in. Spring and Brush ...
4in. Brushes ... ...
Extra lengths of Spring 6ft. ... ...



SNAKE REVOLVORS and Containers

Hand Operated machines with drums for Snakes. The body is fitted with gearing and lever for locking snake while rotating against a blockage.

The Wire Snake is tightly wound round a high tensile Steel Rope. As it meets an obstruction the snake compresses on the wire giving extra rigidity.

The Flexicore Wiropecenter is unique in design and succeeds where other methods fail.

No. 53 FL with 25ft. x $\frac{5}{16}$ snake.

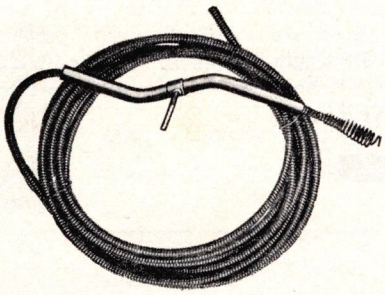
No. 56 FL with 50ft. x $\frac{3}{8}$ snake.

HANDY SNAKENTAINER

For use on waste pipes without removing sink strainer. Locking screw holds snake while rotating against a blockage.

No. 25/8 fitted with 25ft. x $\frac{1}{4}$in. Wiropecenter Snake.

No. 15SM Lighter quality with 15ft. x $\frac{1}{4}$in. hollow snake suitable for householders.



DRAIN PIPE and SEWER AUGERS

Supplied with rotary handles and locking screw to give great power to snake for removal of blockages.

No. 25 FLI 25ft. x $\frac{1}{4}$in. for use on sink wastes and fitted Wiropecenter snake.

No. 50 FL2 50ft. x $\frac{3}{8}$ for drains and fitted Wiropecenter Snake.

DRAIN PIPE and SEWER AUGERS similar to above but with hollow snakes, and turning handle.

25 QH 25ft. x $\frac{1}{4}$in. Snake

No. 50 MH 50ft. x $\frac{3}{8}$ for drains

CLOSET AUGERS

Fitted with guards to prevent damage to bowl.

6 FL 6ft. x $\frac{3}{8}$in. Wiropecenter Snake

6 RB 6ft. x $\frac{3}{8}$in. with hollow snake.

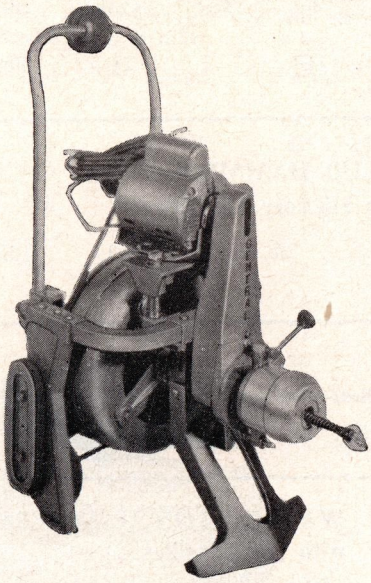
POWER ASSISTED DRAIN CLEARING MACHINES

(Made in USA)

By use of Electric Motors driving a special Flexible Steel Snake fed from a steel drum many problems of clearing blocked pipes, drains and sewers are simply overcome.

THE SNAKES art tightly wound round a high tensile Steel Rope. As it meets an obstruction the snake compresses on the wire giving extra rigidity.

The Flexicore Wiropecenter is unique in design and succeeds where other methods fail.



No. STC-A **The SEWERMATIC**

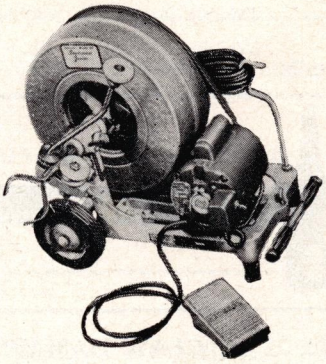
A heavy duty portable machine for pipes up to 9in. diameter, Fitted with ½-hp Reversing Motor, Automatic Feed, Rubber Wheels and Vee Belts which enables one person to load on lorry.

Supplied with 9 tools including Arrow head drill. Flexible Leader, side cutting blades, Rotary Saw and retrieving tool. Equipped with two 50ft. x ¾in. wiropecenter snakes and two drums. Weight 260 lbs.

The SEWEROOTER JUNIOR

No. JR-A-F

A lighter machine for waste pipes and drain to 4in. diam.

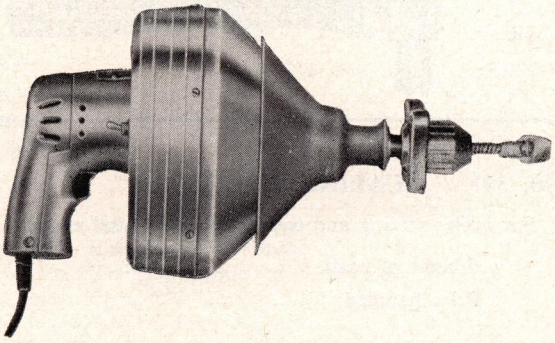


Supplied with 75ft. of ½in. and 50ft. of ¼in. snake.

The Wiropecenter Snakes are housed in steel drums easily changed and joined together.

Complete with cutters, saws, retrieving tools ready for use and ⅓-hp motor.

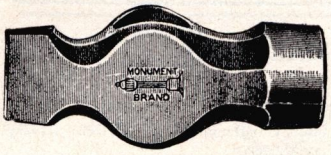
Ideal machine for hospitals, hotels, offices, etc.



HANDYELECTRIC SNAKENTAINER No. HE-A

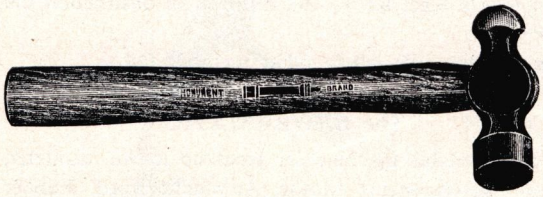
Incorporating an electric drill with snakes housed in drum.

For waste pipes and small drains. Supplied with 25ft. of ¼in. and 25ft. of ⅜in. Wiropecenter. Snakes and set of cutters. 110 volt motor.



No. 113A PLUMBERS' HAMMERS, Polished heads with straight pein fitted Ash Handles

Weight	8oz.	12oz.	1lb.	1½	2
Each					



No. 119 BALL PEIN HAMMERS Polished heads fitted Ash Handles

Weight .	4oz.	8oz.	12oz.	1lb.
Each ...				
Weight .	1½lb.	2	2½	3lb.
Each ...				

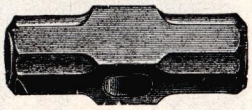
No. 330 CLUB HAMMERS with Hickory Handles

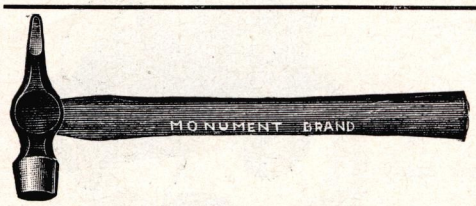
Weight ...	...	2lb.	2½	3	4lb.
Each ...	...	...			

No. 224 SLEDGE HAMMERS

Double faced with bright faces fitted with hickory handles.

Weight	7lb.	10lb.	14lb.





No. 221 WARRINGTON HAMMERS with Ash Handles

Size ...	00	0	1	2	3
Weight (ozs.)	6	8	10	12	14
Each ...					

No. 222. Warrington Pin Hammers ...

No. 223 CLAW HAMMERS. All Bright HICKORY HANDLES

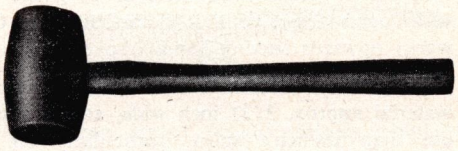
Size No.	2	3	4
Weight of head ...	1lb.	1¼lb.	1½lb.
Each			

No. 341 SCALING HAMMERS

For boiler scaling and weld chipping, chisel ended.

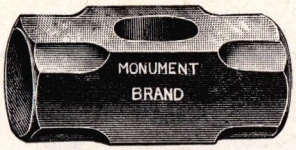
Weight of head	1 lb.
Price handled	

RUBBER MALLETS



These mallets are supplied in two shapes: barrel and parallel. All have flat faces with the exception of No. 626, which has one end domed. No. 620 is a small mallet recommended for motor use. Fitted hickory handles.

Nos.	Shape	Weight oz.	Face Dia. in.	Dia. at Centre in.	Length of head in.	Price
616	Parallel	10	$1\frac{7}{8}$	$1\frac{7}{8}$	$3\frac{1}{4}$	
617	Barrel	19	2	$2\frac{3}{4}$	$4\frac{1}{4}$	
618	Parallel	20	$2\frac{3}{4}$	$2\frac{3}{4}$	4	
620	Barrel	13	$1\frac{3}{4}$	$2\frac{1}{2}$	$3\frac{1}{4}$	(motor mallet)
625	Barrel	19	$2\frac{1}{4}$	$2\frac{3}{4}$	4	
626	Barrel	23	$2\frac{1}{2}$	$2\frac{3}{4}$	$4\frac{1}{2}$	(one face domed)
629	Parallel	21	$2\frac{1}{2}$	$2\frac{1}{2}$	$4\frac{1}{2}$	
630	Parallel	30	$2\frac{7}{8}$	$2\frac{7}{8}$	$4\frac{7}{8}$	

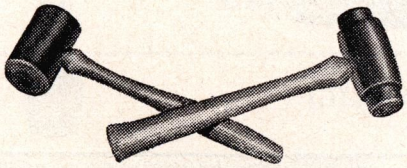


No. 340 **COPPER HAMMERS Hickory Handles**

Weight	$\frac{1}{2}$	1	2 lb.
Handled			

No. 325 **LEAD HAMMERS Hickory Handles**

Weight	2	$2\frac{3}{4}$	lb.
Handled			



RAWHIDE MALLETS, RAWHIDE and COPPER FACED HAMMERS

HICKORY HANDLES

No. 344 **RAWHIDE MALLETS**

Size No.	0	1	2	3	4	4A	5	6	7	8	9
Diam.	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	$2\frac{3}{4}$	3	3in.
Weight	2	4	6	8	10	12	16	20	24	30	36 oz.

Size No.	0	A	1	2	3	4
Diam. of face	$\frac{7}{8}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2 in.

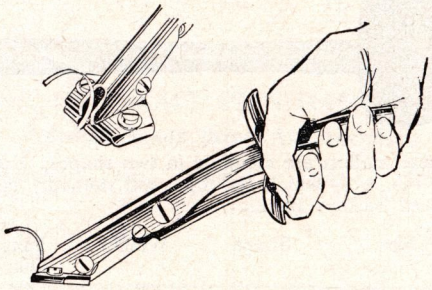
No. 345.	Hide Faced Hammers	
No. 346.	Copper and Hide Faced Hammers	
No. 348.	Extra Hide Faces	pair
No. 349.	Extra Copper Faces	,,

No. 217 **SHEET METAL CUTTER**

Will cut 20 gauge Mild Steel or 18 gauge Brass and Copper Sheet without distortion. The Cutter works upwards leaving hands above the material.

The Tool Steel cutter blade removes a strip of material approx. 3/32 inch wide, and is easier to use than tinmen's snips, particularly on large sheets.

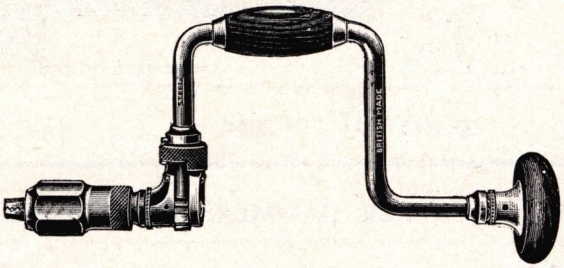
Circular as well as straight cuts may be made, and inside cutting can be undertaken provided a ¼-in. dia. hole is drilled to allow cutting to commence.



No. 217 Cutter ... ...

Extra blades ... ...

No. 440 **CARPENTERS' BRACES (Skinner)**



No. 441 Ratchet Braces, ball bearing head, Alligator Jaws

8in. Sweep ... 10in Sweep

No. 445 Ratchet Braces with unbreakable amber coloured plastic caps and handles, bright finish

8in. Sweep ... 10in. Sweep

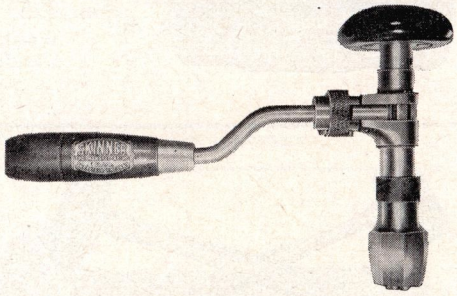
No. 446

JOIST BRACES with Ratchet

For use in restricted space against joists and beams.

Alligator jaws ... ...

No. 444 Alligator jaws ... ...



No. 838 **MALLEABLE HAMMER WEDGES**

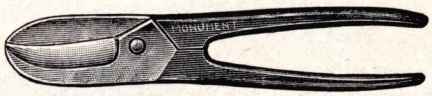
Size No.	1	2	3	4	5
Width (ins.) ...	½	⅝	¾	⅞	1¾
Per Gross ...	...	...	...	...	...

No. 839 **Hammer Wedges on Cards**

One of each sizes 1, 2, 3, 4, per card ... ...

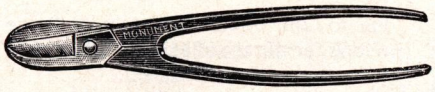
No. 170-171

TINMEN'S SNIPS



Made from first quality cast steel. Enamelled handles. Open ended which prevents nipping.

	Length (ins.)	...	...	6	8	10	12
No. 170.	Straight pattern	...	...				
No. 171.	Bent pattern	...	...	...			



No. 56
No. 056

JEWELLER'S SNIPS

Open ended, enamelled handles.

No. 56. Straight pattern, 7in. ...
No. 056. Bent pattern, 7in. ...

No. 169

UNIVERSAL SNIPS

Heavy duty Snips to cut either curved or straight. Open ended to prevent nipping, well finished and properly ground. Right hand, 11in. ... ...

"GILBOW" TINMEN'S SNIPS

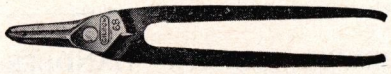
Plain type with "No-Nip" handles, enamelled finish.

	Length (ins.)	8	10	12
No. 1245.	Straight pattern...			
No. 1246.	Bent pattern ...			

"GILBOW" UNIVERSAL SNIPS

Cranked pattern with "No-Nip" handles

No. 1169. 11in. right hand ... ...
No. 1691. 14in. ,, ...
No. 1167. 11in. left hand ... ...



Straight pattern with "No-Nip" handles

No. 1168. 9in. right hand ... ...
No. 1950. 12in. ,, ...

"GILBOW" JEWELLERS SNIPS

"No-Nip" handles, enamelled finish, 7in.

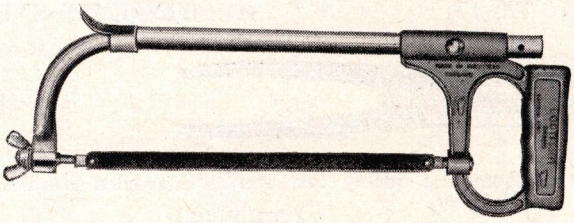
No. 1156. Straight pattern... ... ...
No. 1056. Bent pattern ... ...

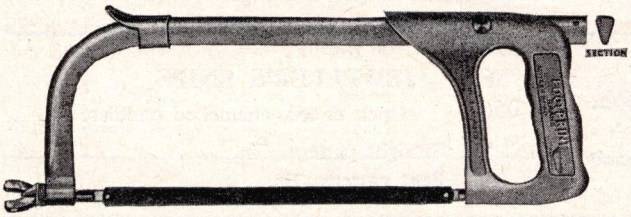
No. 466

ADJUSTABLE HACKSAW FRAME

To take blades 9in. to 12in., with chromium plated tubular frame, and light alloy handle.

Price ...





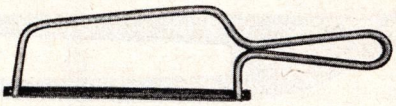
No. 470

ADJUSTABLE HACKSAW FRAME

9in. to 12in. Streamlined tubular frame allows for storage of blades. Chromium plated finished.

Price ... ...

No. 468 **JUNIOR HACKSAW FRAMES**



Plated finish to take 6in. Junior Blades ... ...

No. 469. JUNIOR HACKSAW BLADES ... ...

Nos. 461-464-465 **HACKSAW BLADES**

Best quality low tungsten carbon steel. These blades are hardened throughout with tempered backs. They are flexible, spring, hard and unbreakable.

No. 464. ½in. x 23 gauge. ... ... 10in. per gross. ... 12in.
18, 24, 32 teeth per inch.

No. 465. Double Edged 1in. x 21 gauge ... 10in. per gross. ... 12in.
24 teeth per inch.

HIGH SPEED STEEL HAND BLADES
16% Tungsten, semi-flexible.

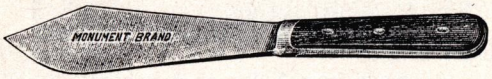
No. 461. ½in. x 23 gauge ... ... 10in. per gross ... 12in.
18, 24, 32 teeth per inch.

No. 314 **BEECH PADSAW HANDLES**
Well finished, fitted Springs.

No. 352 **PADSAW BLADES**
Straw finish, fine tooth.
10in., 11in., 12in.

PAINTERS CUTLERY

With forged blades, well ground and polished with rosewood scales properly fitted.

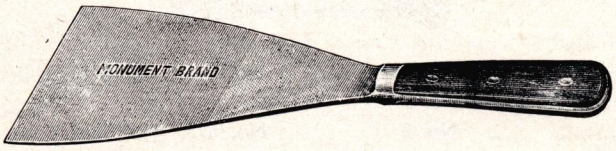


PUTTY KNIVES, Scale Tang, Solid Bolster, 4½in. Blades

No. 191 Clipt Point No. 192 Spear Point No. 195 Skew Point

No. 189 CHISEL KNIVES or SCRAPERS, Scale Tang, Solid Bolster

Width ... 1in. 1¼in. 1½in. 2in. 2½in. 3in. 3½in. 4in.



No. 197 FILLING KNIVES, Scale Tang, Solid Bolster

Finely ground edges for flexibility.

Width ... 2in. 2½in. 3in. 3½in. 4in. 5in. 6in

PAPERHANGERS SCISSORS

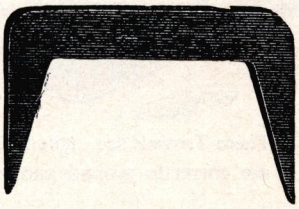
Best quality forged steel correctly ground.

Length	10in.	11in.	12in.
No. 738 Spear Point			
No. 739 Vigo or Square Point ...			

No. 176 JOINERS' DOGS

Forged Steel.

Length (ins.) ... 2 2½ 3



BRICKLAYERS LINE

made from Nylon or Polythene

No. 670 NYLON LINE is for all practical purposes unbreakable as well as rot proof. Although more expensive than hemp or cotton, will give much longer service.

30ft. knots ... 60ft. knots ...

No. 679 POLYTHENE LINE, far stronger than cotton or hemp, is rot proof and coloured orange 60ft. knots ...

Packed 1 dozen per carton.

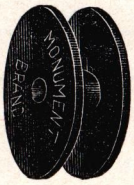
Nos. 671–675–678

CHALK LINE

No. 671. Cotton Boiler Makers, 50ft. knots
No. 672. Cotton line, 60ft. knots, No. 2
No. 673. „ „ „ „ No. 3
No. 674. Hemp brick line, 30ft. knots
„ „ „ 60ft. knots
No. 675. ¼lb. balls hemp line... ...
No. 678. Setting out lines, 90ft. ...

No. 327

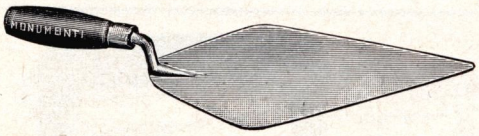
RUBBER CHALK LINE REELS



These Chalk line reels are untarnishable and will not break. They easily hold 60 feet of hemp line. All users of line need a line reel ... ...

BRICKLAYERS LINEPINS

No. 676. All bright finish ...
No. 677. Black Finish ... ...

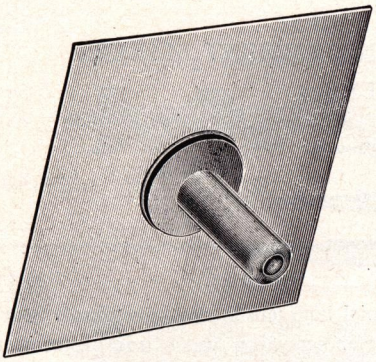


No. 635

BRICK TROWELS (Solid forged)

Size (ins.) ...	10	11	12
No. 635P. Plain handles ...			
No. 635C. Capped handles			

These Trowels are made from solid forged cast steel, properly hardened and tempered. They are correctly ground and equal to any other product. Each tool is fully guaranteed.



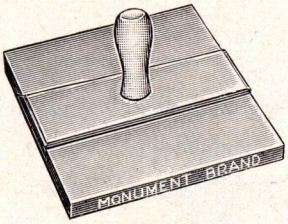
Nos. 420–425

ALUMINIUM HAWKS

Lighter weight than wood, with detachable handle and soft rubber protecting washer.

No. 420. 12in. × 12in. ...

No. 425. 9in. × 9in. ...

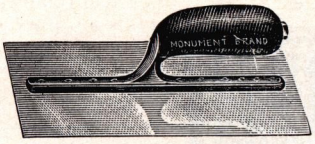


No. 812

WOODEN HAWKS

made from selected and seasoned light softwood

12ins. × 12ins. ... ...



PLASTERERS' TROWELS

No. 637 Double hang, 11 × 4½in., 6 rivet, 20 gauge ...

No. 632

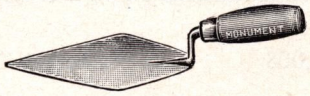
SLATERS' RIPPERS

Spring Tempered Steel

Length of blade 24ins.

No. 634 **POINTING TROWELS** (Solid forged)

Size (ins.) 5 6 7



No. 636 **GAUGING TROWELS** (Solid forged, highly finished)

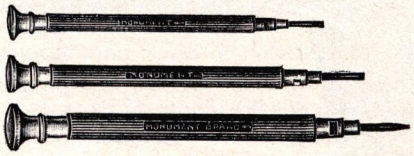
Size (ins.)

6 ... ...

7 ... ...

8 ... ...

No. 1,000 "Shetack" WATCHMAKERS or INSTRUMENT MAKERS' SCREWDRIVERS



The blades on these small screwdrivers are made from special high tensile steel scientifically heat treated, carefully and correctly ground to grip the smallest diameter screw on watch and instrument work. Fitted with fluted shanks and revolving head, the plated finish offers a high grade tool to the particular man requiring a fine tool for use on fine work.

Size No.	No. 0	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6
Diam. of blade mm.	·8mm.	1·2mm.	1·6mm.	2mm.	2·4mm.	2·8mm.	3·2mm.
Diam. of blade ins.	1/32in.	3/64in.	1/16in.	5/64in.	3/32in.	7/64in.	1/8in.
Diam. of shank mm.	3·5mm.	4·25mm.	5·0mm.	6·5mm.	7·5mm.	7·5mm.	7·5mm.
Diam. of shank ins.	9/64in.	11/64in.	13/64in.	1/4in.	5/16in.	5/16in.	5/16in.

SETS OF SCREWDRIVERS

These keep the screwdrivers free from dust and prevent their loss or damage when not in use.

Set in fitted Plastic Wallet

No. 1001 with sizes 0,1, 2, 3, 4 Screwdrivers

No. 1,008 "Shetack" OPTICIANS SCREWDRIVERS

Fitted with two removable blades, one of which is kept in the body of the driver, and 3/4in. diam. revolving knob, nicely plated.

This tool is ideal for optical work and small instrument making.

No. 2220

AUGER and BRACE BITS

Solid Centre Auger Bits, with Jennings pattern nose. 8in. to 10in. long.

Diam. (ins.) ...	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{3}{4}$	$\frac{13}{16}$	$\frac{7}{8}$	$\frac{15}{16}$	1

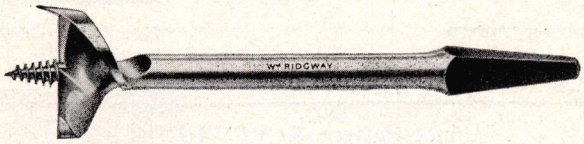
No. 2240

JENNINGS PATTERN AUGER BITS

Diam. (ins.) ...	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{3}{4}$	$\frac{13}{16}$	$\frac{7}{8}$	$\frac{15}{16}$	1

No. 2066

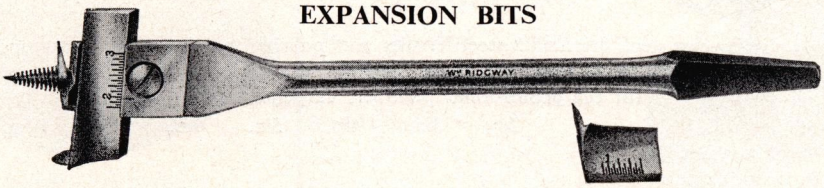
NEW PATTERN CENTRE BITS, bright finish



Diam. (ins.) ...	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{3}{4}$	$\frac{13}{16}$	$\frac{7}{8}$

Diam. (ins.) ...	$\frac{15}{16}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$	$1\frac{7}{8}$	2

EXPANSION BITS



Supplied in wooden box. No. 2915 is fitted with serrated grip on cutter and is easier to adjust

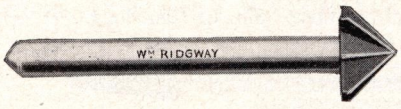
No. 2914	Small size $\frac{1}{2}$in. to $1\frac{1}{2}$in. with two cutters	... ...
No. 2914	Large size $\frac{7}{8}$in. to 3in. with two cutters	... ...
No. 2915	Small size $\frac{1}{2}$in. to $1\frac{1}{2}$in. with two cutters	... ...
No. 2915	Large size $\frac{7}{8}$in. to 3in. with two cutters	... ...

No. 2000

SCOTCH EYED SCREW AUGERS

Diam. (ins.)	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$

ROSE COUNTERSINKS, with round shanks



No. 2661 Case hardened mild steel, $\frac{3}{16}$in. shank.
Diam. $\frac{3}{8}$in. Diam. $\frac{1}{2}$in.

$\frac{1}{2}$in. diam. $\frac{1}{4}$in. shank 90° included angle.
No. 2851 Carbon Steel ...
No. 2852 High Speed ...

BITSTOCK COUNTERSINKS Bright Finish

No. 2274 Snailhorn
Diam. $\frac{3}{8}$ $\frac{1}{2}$ $\frac{5}{8}$
Price

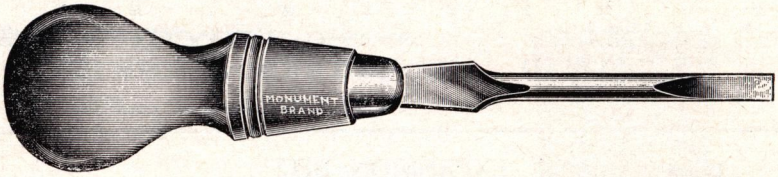
No. 2280 Rosehead

TURNSCREW BITS

No. 2294 Cabinet Pattern
$\frac{1}{4}$ $\frac{5}{16}$ $\frac{3}{8}$
Price

No. 2296 Double Ended
$\frac{1}{4}$ x $\frac{3}{8}$ $4\frac{1}{2}$in. long
Price

No. 210 Cabinet Pattern SCREWDRIVERS

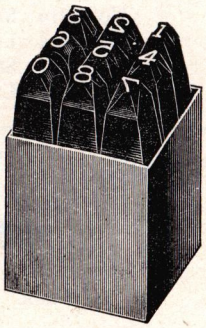


Blades of best quality cast steel, fitted with steel ferrules and polished beechwood or boxwood handles

These are the best quality screwdrivers
for the professional plumber, carpenter, etc.

Length of blade	2in.	3in.	4in.	5in.	6in.	8in.	10in.	12in.
No. 210. Beech handles								
No. 213. Boxwood handles ...								

No. 940 NUMBER and LETTER STAMPS



These cast steel hand stamps are sold in sets for letters and figures. General purpose for wood or unhardened metal.

Size of figures (ins.)	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$
Sets of numbers ...			
Sets of letters ...			

Nos. 153-154 **PLUMBERS' TOOL BAGS**

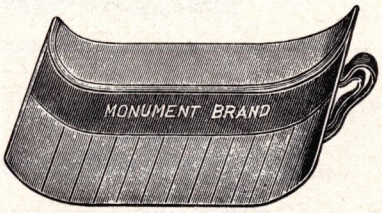
Brown canvas with rope handle, and four brass eyelets.

	Inches	18 × 18	18 × 20
No. 153. Plain bottoms	...		
No. 154. With leather bottoms...			

CARPENTERS' BIT and CHISEL ROLLS

Best quality brown canvas.

	To hold 9	13	18	24 bits
No. 307P, parallel pattern				
No. 307P, baize lined ...				
No. 377P, parallel pattern with plastic lining				
No. 304. Chisel rolls, to hold 8 chisels ...	...			
„ „ „ „ 12 „ ...	...			



No. 309 **SAW CASES**

Made from best quality brown Canvas fitted leather straps. To suit Hand and Panel Saws.

Length of Saw Blade	22in.	24in.	26in.
Price ...	...		

Best quality brown canvas, and strong rope handles.

No. 830

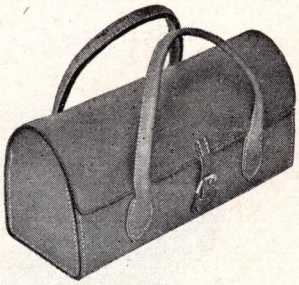
HIDE TOOL BAGS

Made from black hide with reinforced base, extremely strong and hardwearing.

Size 16″ × 6″ × 5″ ...

Size 18″ × 6″ × 5″ ...

Size 21″ × 6″ × 5″ ...



No. 305 **TOOL BASKETS or CARPENTERS' TOOL BAGS**

Size No. ...	1	2	3	4	5	6
Length (ins.)	24	27	30	33	36	39
Type A, plain pattern						
Type B, 8 brass eyelets and roped all round						
Type C, leather straps and roped all round						
Above types, leather lined, each extra						
All types and sizes with leather bottoms						
All types and sizes with leather handles						

No. 828

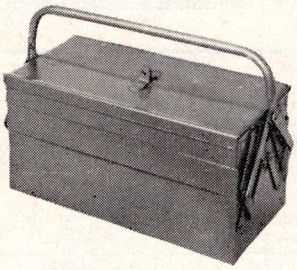
WATERPROOF TOOL BAGS

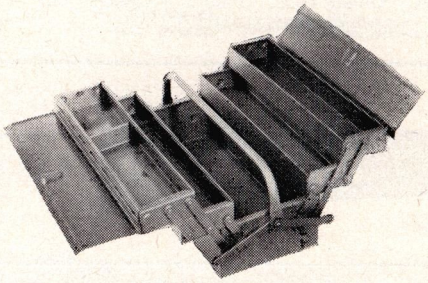
These tool bags are made from a very strong rubberised material, securely sewn with strong straps and handles which extend round base of bag

Length ... ... 14in. 16in. 18in.

STEEL TOOL BOXES (English Made)

With automatic closing, baked enamel finish, strongly made, attractive appearance

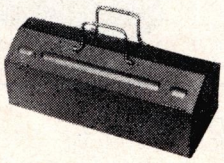


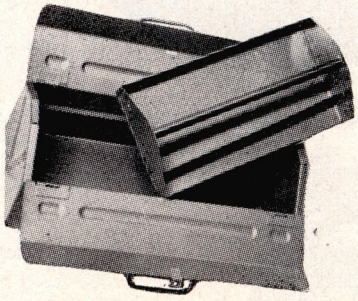


Cantilever Type 20 gauge steel. On depressing handle, the trays open. The carrying handle folds flat, strong padlock fitting.

No. 803 with 3 Trays 17 × 8 × 6 ...

No. 805 with 5 Trays 17 × 8 × 8 ...





Barn Type Swivel carrying handles fold flat for easy storage, removable carrying tray

No. 813. 12×8×7in. ...

No. 814. 14×8×7in. ...

No. 819. 19×8×7in. ...

No. 824. 24×8×7in. ...

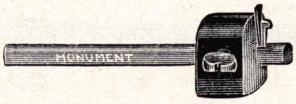
MONUMENT BRAND PLUMBERS' TOOLS

No. 790 MARKING GAUGES

Best quality beechwood with plastic screws.

Price ... ...

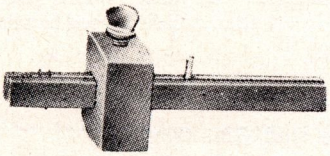
No. 791 CUTTING GAUGES



Best quality beechwood brass wedge and plastic screw.

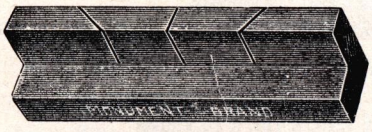
Price ... ...

No. 792 MORTISE GAUGES



Combination, mortise and marking guage, beechwood

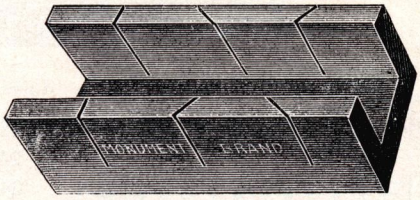
No. 795 MITRE BLOCKS



Best quality beechwood

Length 9in. ... ...
„ 12in. ... ...

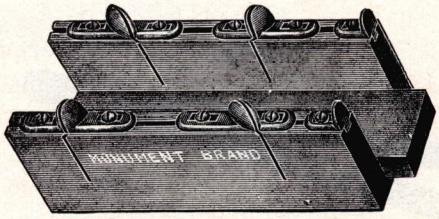
No. 796 MITRE BOXES



Length 9in. ... ...
„ 12in. ... ...

No. 797 MITRE BOXES with adjustable metal guides

Length 9in. ... ...
„ 12in. ... ...



No. 810 SKIMMING FLOATS

Made from finest selected mild lightweight softwood.

12½in. × 4¾in. ... ...
Spare Faces ... ...

No. 811 CROSS GRAIN FLOATS

Complete with face and slides

11in. × 5in.... ... ...
Spare Faces and Slides ...

WHEEL GLASS CUTTERS

No. 571. Single wheel glass cutter with alloy steel wheel, blue tip (red handle)

Single wheel cutters with interchangeable wheels

No. 572. With alloy steel wheel

No. 573. With tungsten carbide wheel ... ...

No. 575. Six wheel turret glass cutter, polished wood handle

SPARE GLASS CUTTER WHEELS

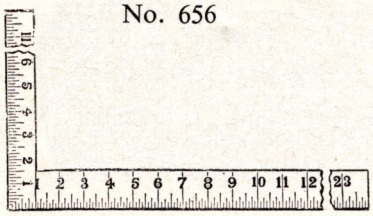
No. 576. To suit No. 572 single wheel cutter, alloy steel $\frac{7}{32}$in. diam.

No. 577. To suit No. 575 six wheel cutter, alloy steel $\frac{5}{32}$in. diam. ...

No. 578. To suit No. 573 single wheel cutter, tungsten carbide ...

(also on card, 12 doz per card)

No. 656



MASONS or BLACKSMITHS SQUARES

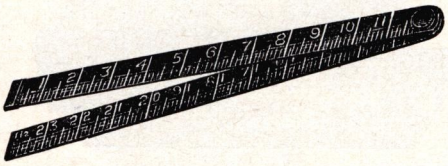
Marked both sides inches into 8ths.
Machined on edges

18in. x $1\frac{1}{2}$in. x 12in. x 1in. x 10 gauge ...

24in. x 2in. x 12in. x $1\frac{1}{2}$in. x 10 gauge ...

24in. x 2in. x 18in. x $1\frac{1}{2}$in. x 10 gauge ...

24in. x 2in. x 24in. x 2in. x 10 gauge ...



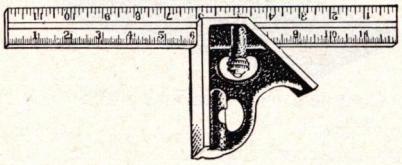
No. 532 2 Foot, 2 Fold STEEL RULES

Marked both sides: one side in $\frac{1}{16}$ths; reverse side $\frac{1}{8}$, $\frac{1}{32}$ and $\frac{1}{64}$ths. Fitted brass ends.
Price ...

No. 532S. as above but made of stainless steel
Price ...

No. 533. Marked both sides: one side $\frac{1}{32}$, $\frac{1}{64}$, $\frac{1}{8}$ths; reverse side $\frac{1}{16}$ths, untipped.
Price ...

No. 533S. as above but made of stainless steel
Price ...

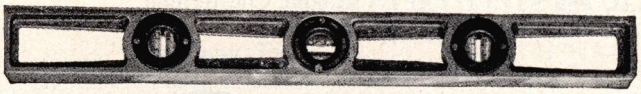


No. 654 STEEL COMBINATION TRY and MITRE SQUARE

Complete with 12in. sliding blades marked in $\frac{1}{8}$ths, $\frac{1}{16}$ths and $\frac{1}{32}$nds. Quick action locking screw and level.

Diecast stock lightweight

Price ...



BUILDERS PLUMB and SPIRIT LEVELS

Fitted with rubber tipped tubes for shock absorption

		18in.	24in.	30in.	36in.	42in.
No. 860	Aluminium, two levels, four plumbs set in pairs of cradles, glass protected, tube replacements easily fitted					

SPIRIT LEVELS

No. 862 TOR Boat shaped, brass tipped hardwood

6in. 9in. 12in.

No. 863 TOR/1 9in., boat shaped, aluminium, with three tubes, one at 45 degs. ... ...

PLUMB and SPIRIT LEVELS (Rabones)

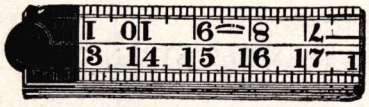
		Length	6	8	9	10	12in.
No. 1626.	Canoe Shaped brass tipped						
No. 1621.	Brass Top Plate						
No. 1420.	Aluminium Canoe Shaped		—	—		—	—
No. 1421.	Aluminium with 45° Plumb		—	—		—	—

BUILDERS PLUMB and SPIRIT LEVELS

Made from selected hardwoods, brass tipped

		Length	24	30	36	42	48in.
No. 178.	Two plumbs and spirit level						
No. 180.	Six adjustable tubes						
No. 190.	Six adjustable tubes Rubber Buffers						
Nos. 1410/1414.	Six Way Aluminium					—	
Nos. 1415/1416.	Two Plumb Aluminium				—	—	—

BOXWOOD RULES (Rabones)



2 foot and 3 foot 4-fold
2 foot 2 fold

2ft. 4 fold, 3ft. 4 fold

No. 1167. Blindmans Arch Joint
No. 1165. „ Circle of Degrees

2ft. 4 fold, 3ft. 4 fold

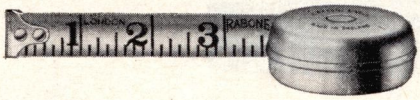
No. 1380. Arch Joint
No. 2550. With Bevelled edge

No. 1168. Blindmans V Joint 2ft. 2 fold

LINEN, METALLIC and STEEL TAPES Rabone Chesterman

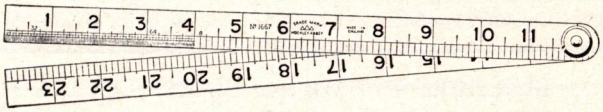
		Length ... 25	33	50	66	100ft.
No. 435/1	Steel in Steel Case ⅜in....					
No. 291/1	Fibron Tapes in Plastic Coated Steel Cases ...					
No. 70W/1	Silverline ⅜in. White Steel Tape in Steel Case ...					
No. 71W/1	Silverline ½in.					
No. 241/1	Plastic Coated Metallic in leather case					
No. 418/1	Steel Tape ½in. in leather case					
No. 455	Handy Line Tape 33ft. x ⅜in. wide					

FLEXIBLE STEEL TAPES Rabone Chesterman

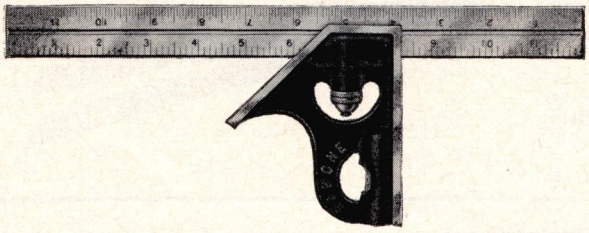


No. 380	Nuflex with white face tape, 6ft. ft. & ins.		
No. 383	„ Consecutive Inches	6ft.	
No. 310	Interflex Rule ½in. wide, feet and inches	6ft.	10ft.
No. 313	Interflex as above Consecutive Inches	6ft.	10ft.
No. 344	Whiteflex Rule feet and inches also Consecutive Inches	6ft.	10ft.

2 FOOT 2 FOLD STEEL RULES



No. 52 Stop Joint Brass tipped marked 8ths and 16ths.
No. 56 Spring Joint Not tipped „ 8ths, 16ths, 32nds, 64ths.



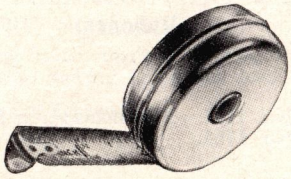
COMBINATION TRY and MITRE SQUARES

No. 1901 Without Spirit Level 12in.
No. 1902 With Spirit Level 12in.
Marked on both sides 8ths and 16ths.

STIFF FLEXIBLE STEEL TAPES

No 597
Model AI marked in $\frac{1}{16}$in. and $\frac{1}{32}$in. ⅝in. wide blade.

6ft. ... ...
8ft. ... ...
10ft. ... ...



HAND DRILLS

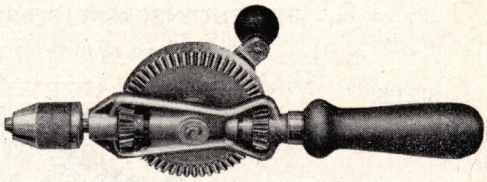
Malleable cast frames Machine cut gears

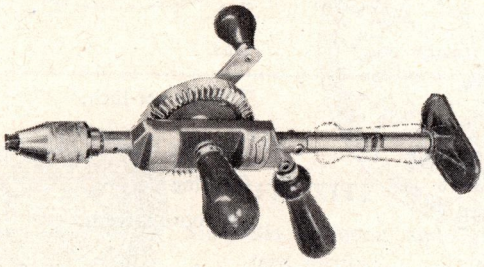
Handyman Types

No. 2611. Single Pinion $\frac{1}{4}''$ Chuck
No. 2616. Double Pinion $\frac{5}{16}''$ Chuck

Hand Drills for Craftsmen

No. 2600. Double Pinion $\frac{1}{4}''$ Chuck
No. 2605. ,, ,, $\frac{5}{16}''$,,



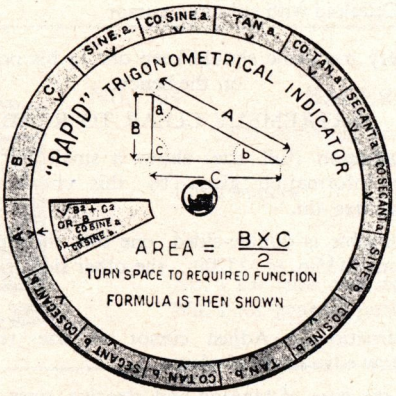


No. 1150

HAND and BREAST DRILL

The handle may be fitted in two positions, and a breast attachment is also supplied. Double pinions, and machine cut gear wheel.

$\frac{5}{16}$in. Capacity Chuck ... ...



No. 610

The RAPID TRIGONOMETRICAL CHART

For Students, Draughtsmen, Engineers, Architects and Surveyors.

With the aid of this calculator, the formula for solving all angles and sides of any right angled triangle is shown at a glance.

Sine, Co-Sine, Tangent, Co-Tangent, Secant, Co-Secant.

The printing is deeply embossed on untarnishable celluloid and extremely clear to read

No. 1695

ENGINEER'S BLUE

Ready to use for marking out Surface plate and scraping operations

Tubes ... ...

Tins ... ...

No. 600

The D.T.C. THREAD CHART

(Drilling, Tapping, Clearing)

FOR ENGINEERS, FITTERS AND TOOL MAKERS.

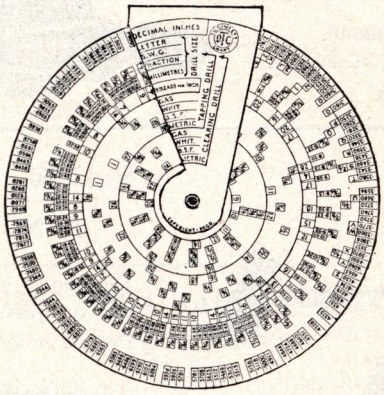
All sizes and equivalents up to 1in. at a glance.

SIZES.

Decimals.
Inches.
Standard Wire Gauge.
Millimetres.

DRILLS.

Letter Sizes.
S.W.G. ,,
Fraction ,,
Millimetre ,,
Number ,,



THREADS.

Metric.
B.S.F.
Whitworth.
B.A.
Gas.

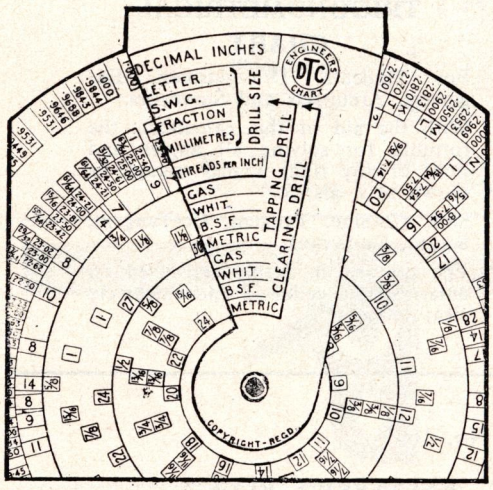
Threads per Inch.

Tapping Sizes.
Clearing ,,
for above threads.

No. 600 Pocket Size $3\frac{3}{4}$in. diameter ... ...

No. 605 Toolroom Model $5\frac{5}{8}$in. diameter, made from heavy quality white Perspex with extra large and clear figures

Made from beautifully finished White Celluloid with coloured cursor.



Every mechanic should keep one in his pocket or on the bench.

EXTREMELY CLEAR TO READ.

Illustration (full size) shows a small portion of the information given by this chart. Chart measures 4in.

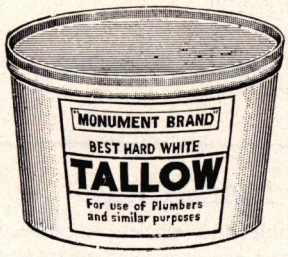
The table is double-sided, one side showing sizes from ·0135in. to ·2320in., the other side up to 1in.

Instructions. — Adjust cursor to size required, follow edge for equivalent.

In the case of tapping and clearing sizes simply follow arrow to drill required.

For number of threads per inch, take threads in red on cursor (as used for tapping sizes) and follow edge for reading on table.

Examples :—1. 1·00in. = 25·40mms.: 1mm. = ·0394in.
2. When tapping O.B.A. hole use No. 12 drill : 25·4 t.p.i.
3. $\frac{1}{8}$in. whit clearing drill size is No. 30 drill.
4. 20 standard wire gauge = ·036in.
5. A No. 77 drill measures ·018in.
6. $\frac{1}{2}$in. gas thread has 14 threads per inch.



No. 315 TALLOW in TUBS

This best quality hard white tallow is supplied in cartons which save much inconvenient handling and waste. These tubs are similar in shape to a cream container.

They are easy to stock and easy to sell.

Size No. 1 approx. ½lb. ... ...
Size No. 2 approx. 1lb. ... ...

No. 317 TALLOW in BULK

Per drum.
7lb. Tin ... ... Per cwt. ... ...

Packed in non returnable drums.

No. 319 FLUXITE

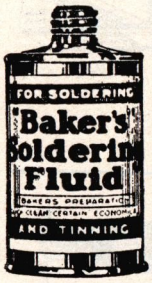
Simplifies soldering and lead jointing

Small Med. Large 7lb.

No. 313 FRYOLUX SOLDER PAINT

Flux and solder combined in paint form. Requires no surface preparation, if metal is reasonably clean.

2oz. 4oz. ½lb. 1lb.



No. 324 BAKERS' SOLDERING FLUID

For soldering and tinning, far superior to killed acids.
Quick, clean, certain, economical.

Fluid ounces	4	8	12	20	32
			½ gal.		1 gal.
No. 1 for iron and steel hot dipping ...					
No. 2 for general purposes					

No. 328 SALAMONIAC

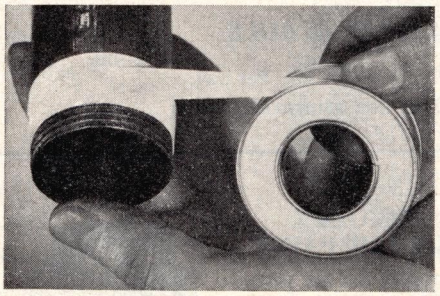
In block form 8in. x 1¾in. x 1¾in. a very good flux and tinning agent, and useful for keeping soldering irons clean.

Price ... ...

No. 955 **HOSE CLIPS**

Adjustable, screw and rack action.

Size No.	M00	00	0	0X	1A	1X	2A	2	2X	3
Capacity	$\frac{3}{8}$–$\frac{1}{2}$	$\frac{1}{2}$–$\frac{5}{8}$	$\frac{5}{8}$–$\frac{7}{8}$	$\frac{7}{8}$–$1\frac{1}{8}$	1–$1\frac{3}{8}$	$1\frac{1}{8}$–$1\frac{5}{8}$	$1\frac{1}{4}$–$1\frac{7}{8}$	$1\frac{1}{2}$–$2\frac{1}{8}$	$1\frac{3}{4}$–$2\frac{3}{8}$	2–$2\frac{3}{4}$



No. 585 **SCREW THREAD TAPE**

This tape provides a simple and efficient means of sealing screw thread connections, it is clean, quick and simple to use. It avoids the need for hemp and jointing compounds. The tape is wound on threads and suitable for steam, water, corrosive gases, and liquids. Made from PTFE which has a low coefficient of friction and is heat resistant.

Price per 40ft. reel of white tape ½in. wide ·003in. thick

No. 329

MULTICORE SOLDER

Multicore solder contains five cores of non-corrosive flux
No extra flux is required and joints can be readily made on oxidised surfaces

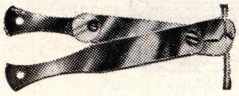
Size 1 cartons in attractive pack

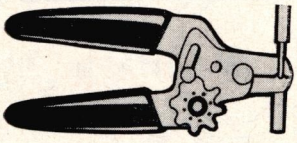
Ref. No.	Alloy Tin Lead	SWG	Price per Carton
C16014	60/40	14	
C14013	40/60	13	
C14016	40/60	16	
C16018	60/40	18	

Size 2 cartons—Small cartons for amateurs and household use, etc. ...
Size 5 Dispenser 5 core 18 SWG... ... ...

No. 820-821 **BIB WIRE STRIPPER**

For cutting and stripping electric wires. This low priced tool is ideal for handyman. Price





No. 821 Fitted with multi gauge selector and comfortable grip. Strips insulation without damage to wire. Price

No. 339 **BOSS WHITE**

For steam, hot and cold water piping, and all screwed pipe jointing
Clean and non-poisonous

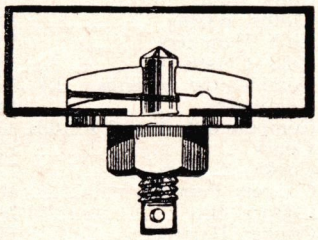
1lb. tins	...	5lb. tins	...
2lb. tins	...	7lb. tins	...

No. 500 The "APLEX" TANK BOLT

Self Acting

CANNOT LEAK

FOOLPROOF



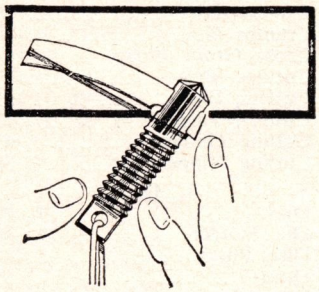
RELIABLE

RUST-PROOF

Price ... ...

Aplex Tank Bolts are so simple to use that they can be fitted with one hand, even in darkness, making repairs possible in awkward positions.

Directions: Simply reamer out hole to ⅜in. diameter. Paint round hole and both sides of washer. Thread string through tail, holding ends in left hand. Insert into hole.



Operate as illustrated.

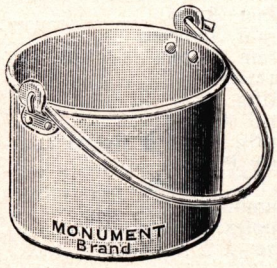
Slide washer and nut up string to the bolt.

Elastic band will centralise cross piece.

Tighten nut in usual manner, holding end of screw to prevent turning.

No. 196 GALVANISED PAINT KETTLES

Deep Drawn Seamless



These paint Kettles are made from one piece of 20 gauge steel, they have no seams or rivets, and are therefore leakproof and easy to clean.

Diameter 5in. 6in. 7in.

No. 563 ASBESTOS STRING

For packing, insulation, etc.

$\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$,in. diam.	1lb. reel
$\frac{5}{16}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, 1in. diam.	7lb. reel

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